


Anti-Androgen Receptor antibody [SP107] - N-terminal ab105225

重组 RabMAb

★★★★☆ **8 Abreviews** **4 References** **23 图像**

概述

产品名称	Anti-Androgen Receptor 抗体 [SP107] - N-terminal
描述	兔单克隆抗体[SP107] to Androgen Receptor - N-terminal
宿主	Rabbit
经测试应用	适用于: IHC-P, WB
种属反应性	与反应: Mouse, Rat, Human 预测可用于: Dog, Pig 
免疫原	Synthetic peptide within Human Androgen Receptor aa 300-400 (N terminal). The exact sequence is proprietary. Database link: P10275
阳性对照	IHC-P: Human prostate carcinoma, prostate carcinoma, breast ductal carcinoma, skin squamous cell carcinoma, uterus, endometrial carcinoma, breast, cervix, placenta, prostate, testis, bladder transitional cell carcinoma, hepatocellular carcinoma, lung carcinoma, lung squamous cell carcinoma, pancreatic carcinoma, ovarian carcinoma, Mouse testis, and Rat testis tissue. WB: Rat and Mouse testis tissue lysates; LnCAP and DU 145 cell lysates
常规说明	This product has switched from a hybridoma to recombinant production method on 23rd May 2023. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.

存储溶液	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
纯度	Protein A/G purified
纯化说明	Purified from TCS by protein A/G.
克隆	单克隆
克隆编号	SP107
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab105225于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P	★★★★★ (2)	1/400. Boil tissue section in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.
WB	★★★☆☆ (2)	Use a concentration of 1.55 µg/ml. Predicted molecular weight: 99 kDa.

靶标

功能	Steroid hormone receptors are ligand-activated transcription factors that regulate eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues. Transcription factor activity is modulated by bound coactivator and corepressor proteins. Transcription activation is down-regulated by NR0B2. Activated, but not phosphorylated, by HIPK3 and ZIPK/DAPK3. Isoform 3 and isoform 4 lack the C-terminal ligand-binding domain and may therefore constitutively activate the transcription of a specific set of genes independently of steroid hormones.
组织特异性	Isoform 2 is mainly expressed in heart and skeletal muscle (PubMed:15634333). Isoform 3 is expressed by basal and stromal cells of prostate (at protein level) (PubMed:19244107).
疾病相关	Androgen insensitivity syndrome Spinal and bulbar muscular atrophy X-linked 1 Defects in AR may play a role in metastatic prostate cancer. The mutated receptor stimulates prostate growth and metastases development despite of androgen ablation. This treatment can reduce primary and metastatic lesions probably by inducing apoptosis of tumor cells when they express the wild-type receptor. Androgen insensitivity, partial
序列相似性	Belongs to the nuclear hormone receptor family. NR3 subfamily. Contains 1 nuclear receptor DNA-binding domain.
结构域	Composed of three domains: a modulating N-terminal domain, a DNA-binding domain and a C-terminal ligand-binding domain. In the presence of bound steroid the ligand-binding domain interacts with the N-terminal modulating domain, and thereby activates AR transcription factor activity. Agonist binding is required for dimerization and binding to target DNA. The transcription

factor activity of the complex formed by ligand-activated AR and DNA is modulated by interactions with coactivator and corepressor proteins. Interaction with RANBP9 is mediated by both the N-terminal domain and the DNA-binding domain. Interaction with EFCAB6/DJBP is mediated by the DNA-binding domain.

翻译后修饰

Sumoylated on Lys-388 (major) and Lys-521. Ubiquitinated. Deubiquitinated by USP26. 'Lys-6' and 'Lys-27'-linked polyubiquitination by RNF6 modulates AR transcriptional activity and specificity.

Phosphorylated in prostate cancer cells in response to several growth factors including EGF. Phosphorylation is induced by c-Src kinase (CSK). Tyr-535 is one of the major phosphorylation sites and an increase in phosphorylation and Src kinase activity is associated with prostate cancer progression. Phosphorylation by TNK2 enhances the DNA-binding and transcriptional activity and may be responsible for androgen-independent progression of prostate cancer. Phosphorylation at Ser-83 by CDK9 regulates AR promoter selectivity and cell growth.

Phosphorylation by PAK6 leads to AR-mediated transcription inhibition.

Palmitoylated by ZDHHC7 and ZDHHC21. Palmitoylation is required for plasma membrane targeting and for rapid intracellular signaling via ERK and AKT kinases and cAMP generation.

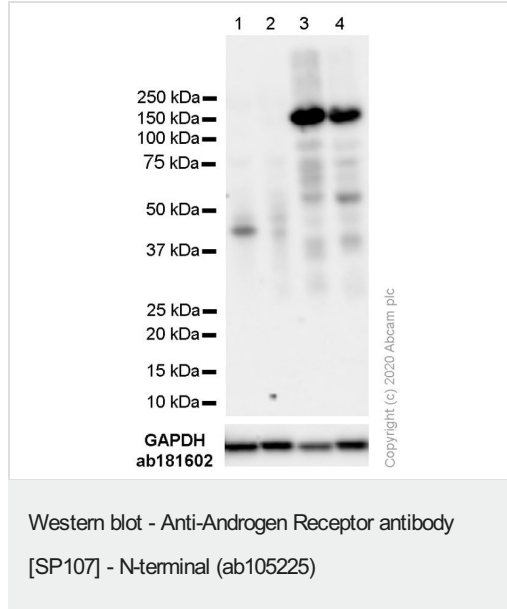
细胞定位

Nucleus. Cytoplasm. Predominantly cytoplasmic in unligated form but translocates to the nucleus upon ligand-binding. Can also translocate to the nucleus in unligated form in the presence of RACK1.

形式

There are 2 isoforms produced by alternative splicing. Isoform 1 is also known as: AR-B; isoform 2 is known as AR-A or variant AR45.

图片



All lanes : Anti-Androgen Receptor antibody [SP107] - N-terminal (ab105225) at 1/1000 dilution

Lane 1 : Mouse liver lysate

Lane 2 : Rat liver lysate

Lane 3 : Mouse testis lysate

Lane 4 : Rat testis lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

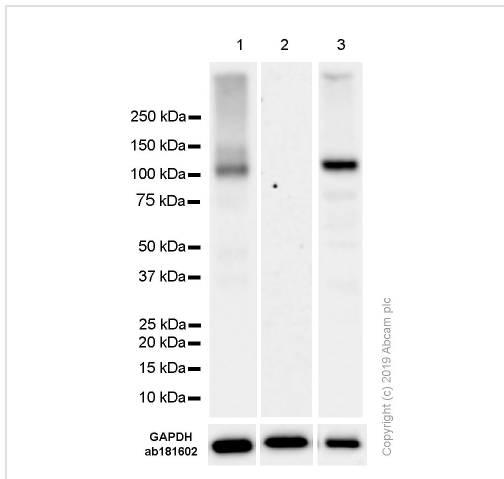
Predicted band size: 99 kDa

Observed band size: 110 kDa

Exposure time: 23 seconds

Blocking/Diluting buffer: 5% NFD/MTBST

Loading Control: Rabbit monoclonal [EPR16891] to GAPDH
([ab181602](#))



Western blot - Anti-Androgen Receptor antibody [SP107] - N-terminal (ab105225)

All lanes : Anti-Androgen Receptor antibody [SP107] - N-terminal (ab105225) at 1.55 μg

Lane 1 : LnCAP (Human prostate carcinoma epithelial cell) cell lysate

Lane 2 : DU 145 (Human prostate carcinoma epithelial cell) cell lysate

Lane 3 : Mouse testis tissue lysate

Lysates/proteins at 20 μg per lane.

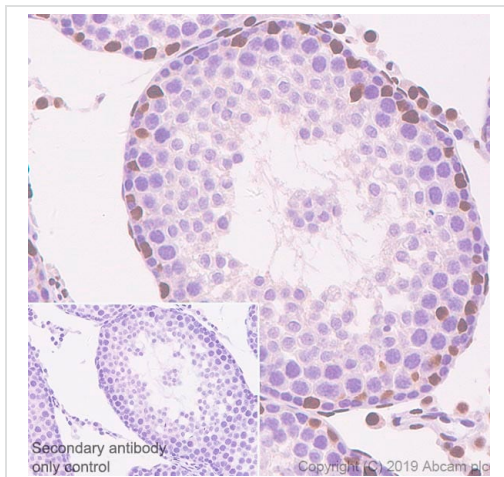
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 0.05 $\mu\text{g}/\text{ml}$

Predicted band size: 99 kDa

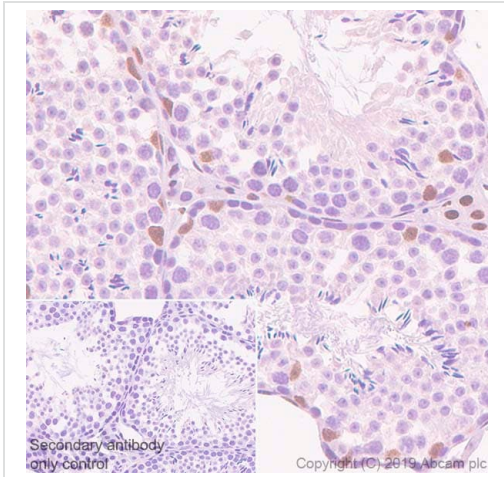
Observed band size: 120 kDa

Blocking/Diluting buffer and concentration: 5% NFDM /TBST



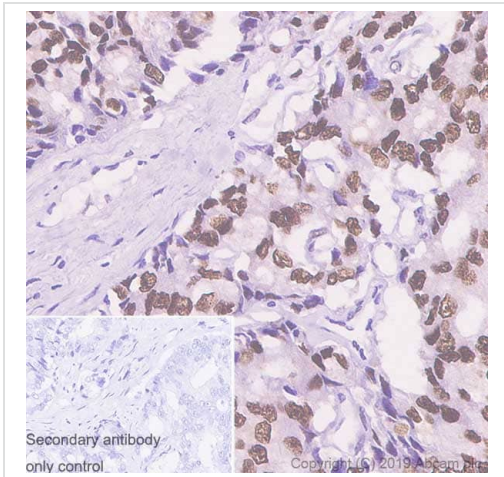
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Androgen Receptor antibody [SP107] - N-terminal (ab105225)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat testis tissue sections labeling Androgen Receptor with Purified ab105225 at 1/400 dilution (0.37 $\mu\text{g}/\text{ml}$). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 30mins. Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



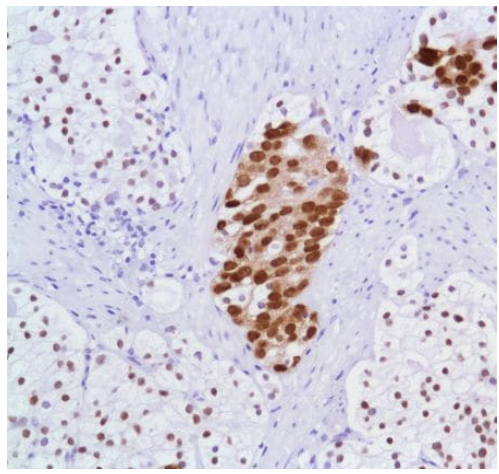
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse testis tissue sections labeling Androgen Receptor with Purified ab105225 at 1/400 dilution (0.37 $\mu\text{g/ml}$). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 30mins. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

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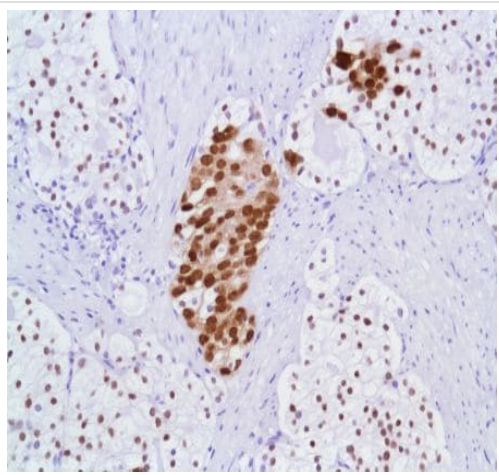
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human prostate cancer tissue sections labeling Androgen Receptor with Purified ab105225 at 1/400 dilution (0.37 $\mu\text{g/ml}$). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 30mins. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

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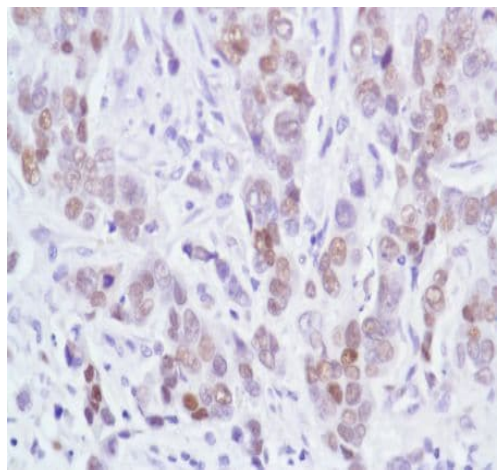
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Androgen Receptor antibody [SP107] - N-terminal (ab105225)

Formalin-fixed, paraffin-embedded human prostate carcinoma tissue stained for Androgen Receptor with ab105225 at 1/400 dilution in immunohistochemical analysis.



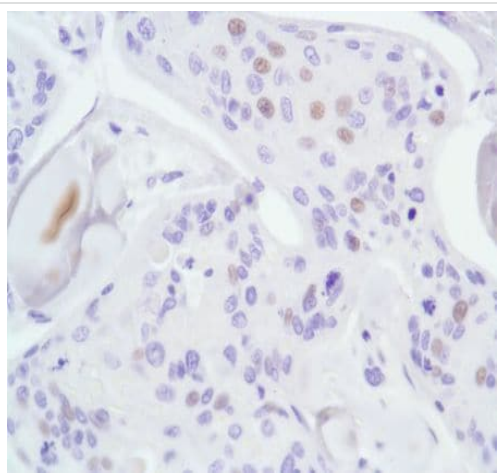
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Androgen Receptor antibody [SP107] - N-terminal (ab105225)

Formalin-fixed, paraffin-embedded human prostate adenocarcinoma tissue stained for Androgen Receptor with ab105225 at 1/400 dilution in immunohistochemical analysis.



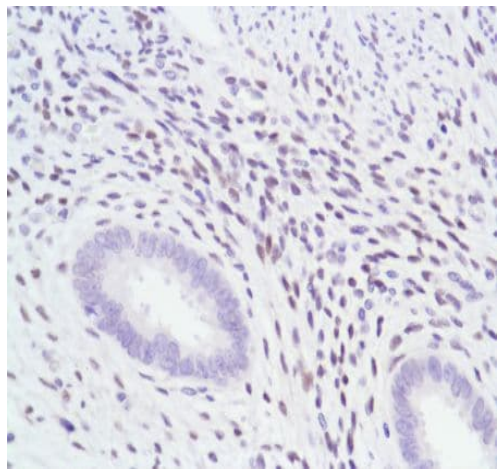
Formalin-fixed, paraffin-embedded human breast ductal carcinoma tissue stained for Androgen Receptor with ab105225 at 1/400 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Androgen Receptor antibody [SP107] - N-terminal (ab105225)



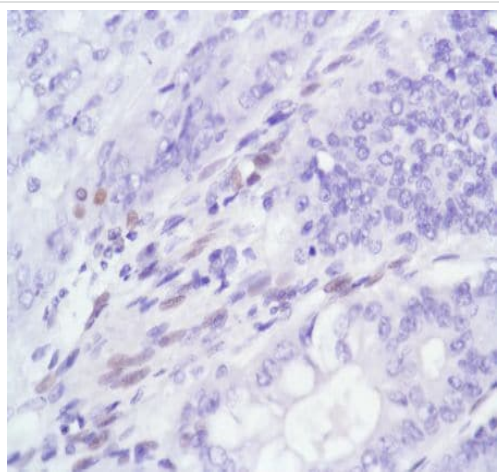
Formalin-fixed, paraffin-embedded human skin squamous cell carcinoma tissue stained for Androgen Receptor with ab105225 at 1/400 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Androgen Receptor antibody [SP107] - N-terminal (ab105225)



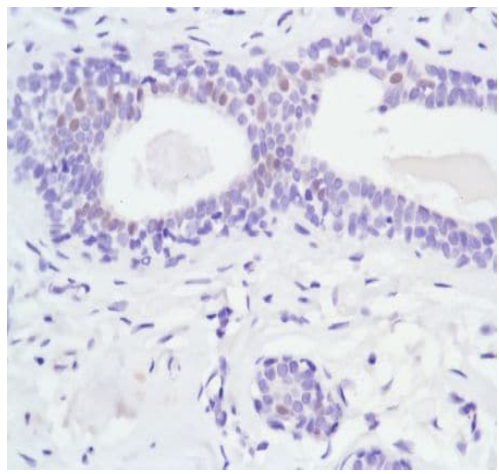
Formalin-fixed, paraffin-embedded human uterus tissue stained for Androgen Receptor with ab105225 at 1/400 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Androgen Receptor antibody [SP107] - N-terminal (ab105225)



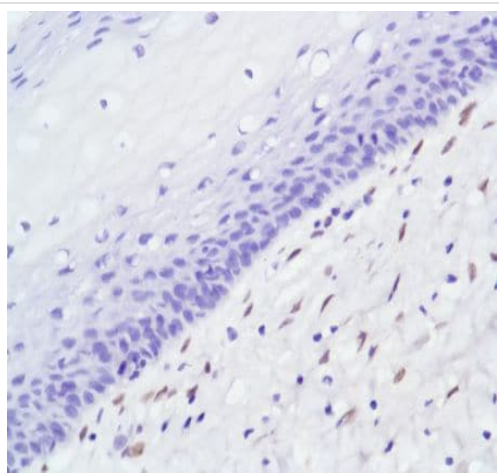
Formalin-fixed, paraffin-embedded human endometrial adenocarcinoma tissue stained for Androgen Receptor with ab105225 at 1/400 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Androgen Receptor antibody [SP107] - N-terminal (ab105225)



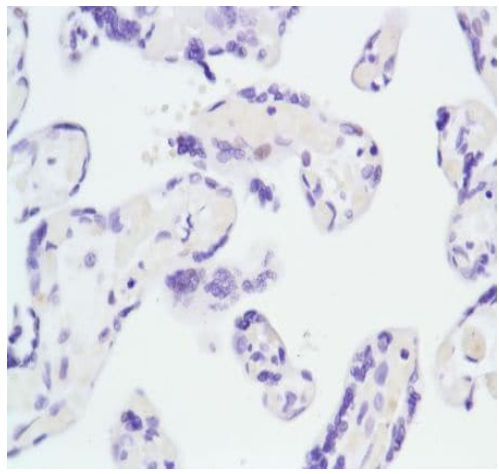
Formalin-fixed, paraffin-embedded human breast tissue stained for Androgen Receptor with ab105225 at 1/400 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Androgen Receptor antibody [SP107] - N-terminal (ab105225)



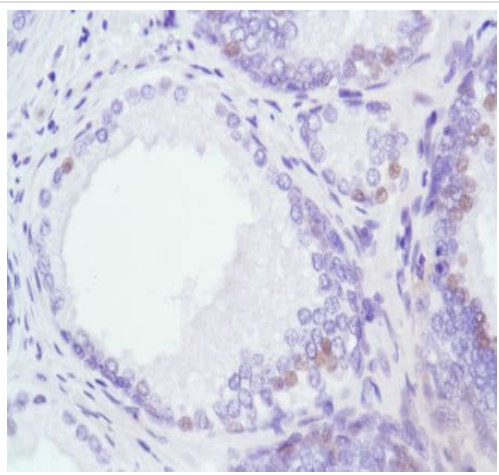
Formalin-fixed, paraffin-embedded human cervix tissue stained for Androgen Receptor with ab105225 at 1/400 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Androgen Receptor antibody [SP107] - N-terminal (ab105225)



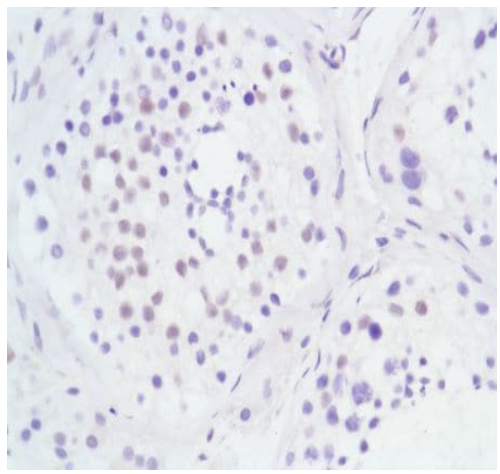
Formalin-fixed, paraffin-embedded human placenta tissue stained for Androgen Receptor with ab105225 at 1/400 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Androgen Receptor antibody [SP107] - N-terminal (ab105225)



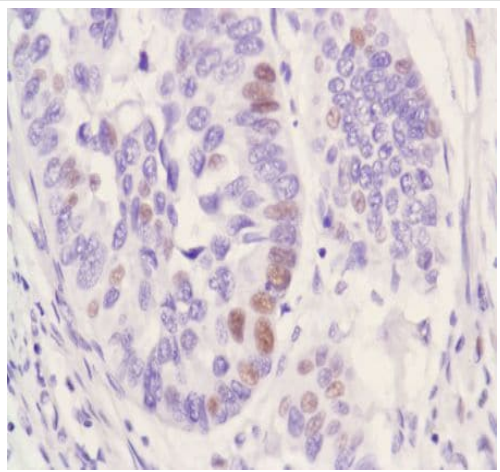
Formalin-fixed, paraffin-embedded human prostate tissue stained for Androgen Receptor with ab105225 at 1/400 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Androgen Receptor antibody [SP107] - N-terminal (ab105225)



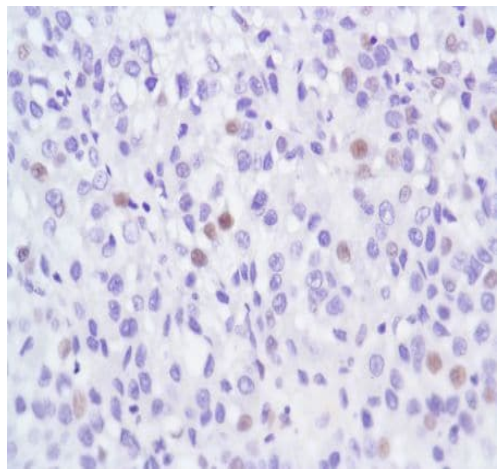
Formalin-fixed, paraffin-embedded human testis tissue stained for Androgen Receptor with ab105225 at 1/400 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Androgen Receptor antibody [SP107] - N-terminal (ab105225)



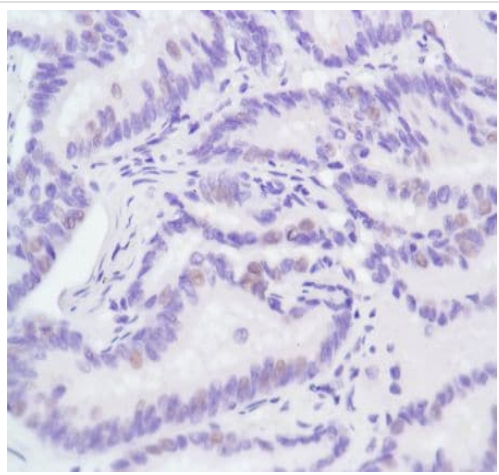
Formalin-fixed, paraffin-embedded human bladder transitional cell carcinoma tissue stained for Androgen Receptor with ab105225 at 1/400 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Androgen Receptor antibody [SP107] - N-terminal (ab105225)



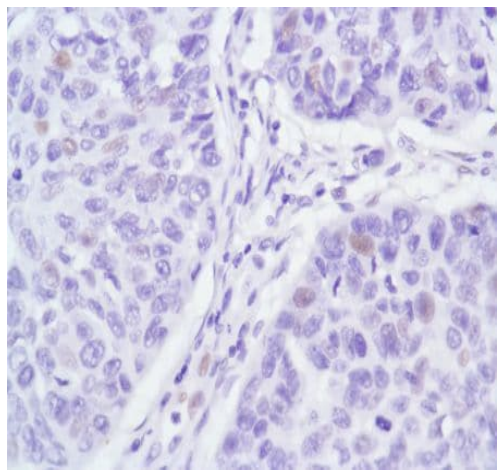
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Androgen Receptor antibody [SP107] - N-terminal (ab105225)

Formalin-fixed, paraffin-embedded human hepatocellular carcinoma tissue stained for Androgen Receptor with ab105225 at 1/400 dilution in immunohistochemical analysis.



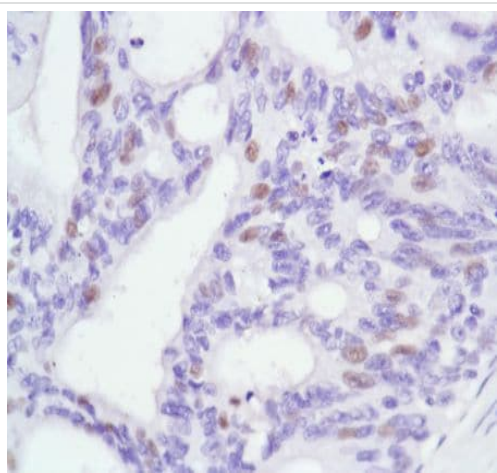
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Androgen Receptor antibody [SP107] - N-terminal (ab105225)

Formalin-fixed, paraffin-embedded human lung adenocarcinoma tissue stained for Androgen Receptor with ab105225 at 1/400 dilution in immunohistochemical analysis.



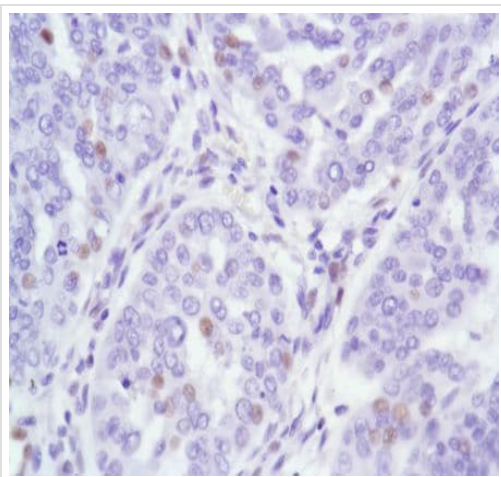
Formalin-fixed, paraffin-embedded human lung squamous cell carcinoma tissue stained for Androgen Receptor with ab105225 at 1/400 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Androgen Receptor antibody [SP107] - N-terminal (ab105225)



Formalin-fixed, paraffin-embedded human pancreatic adenocarcinoma tissue stained for Androgen Receptor with ab105225 at 1/400 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Androgen Receptor antibody [SP107] - N-terminal (ab105225)



Formalin-fixed, paraffin-embedded human ovarian adenocarcinoma tissue stained for Androgen Receptor with ab105225 at 1/400 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Androgen Receptor antibody [SP107] - N-terminal (ab105225)

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Anti-Androgen Receptor antibody [SP107] - N-terminal (ab105225)

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