abcam

Product datasheet

Anti-5T4 antibody [EPR5529] ab134162



重组 RabMAb

8 References 10 图像

概述

产品名称 Anti-5T4抗体[EPR5529]

描述 兔单克隆抗体[EPR5529] to 5T4

宿主 Rabbit

经测试应用 适用于: WB, IHC-P

不适用于: Flow Cyt,ICC/IF or IP

种属反应性 与反应: Human

免疫原 Synthetic peptide within Human 5T4 aa 100-200 (extracellular). The exact sequence is

proprietary.

Database link: Q13641

阳性对照 WB: MCF7, HeLa, HEK-293T, HT-29, HT-1376, and Caco-2 cell lysates. IHC-P: Human placenta

and endometrial cancer tissues.

常规说明 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**.

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with

these species. Please contact us for more information.

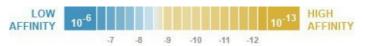
性能

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.

Avoid freeze / thaw cycle.

 $K_D = 1.50 \times 10^{-12} M$ 解离常数(KD)



Learn more about K_D

存储溶液 pH: 7.2

Preservative: 0.01% Sodium azide

Constituents: 40% Glycerol, 0.05% BSA, 59% PBS

纯**度** Protein A purified

克隆 单克隆

克隆编号 EPR5529

同种型 IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab134162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
WB		1/1000 - 1/10000. Predicted molecular weight: 46 kDa. For unpurified use at 1/500.
IHC-P		1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. For unpurified use at 1/100.

应用说明 Is unsuitable for Flow Cyt,ICC/IF or IP.

靶标

组织**特异性** Expressed by all types of trophoblasts as early as 9 weeks of development. Specific for

trophoblastic cells except for amniotic epithelium. In adult tissues, the expression is limited to a

few epithelial cell types but is found on a variety of carcinoma.

序列相似性 Contains 6 LRR (leucine-rich) repeats.

Contains 1 LRRCT domain. Contains 1 LRRNT domain.

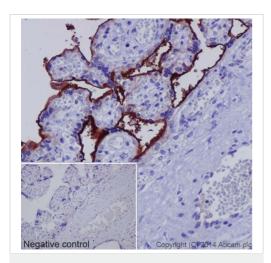
细**胞定位** Membrane.

形式 5T4 is a 72 kDa transmembrane glycoprotein that exhibits restricted expression in human and

mouse adult tissues, is upregulated on many carcinomas and tumour expression correlates with poorer clinical outcome in ovarian, gastric and colorectal cancers. mES cells lack cell surface expression of the 5T4 antigen, and both protein and mRNA are rapidly upregulated following induction of differentiation. This proteins expression correlates with downregulation of OCT-4 and

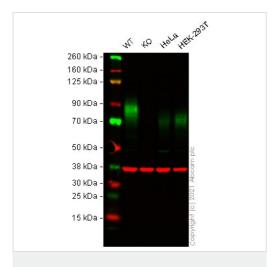
Tra-1-60 (Ward et al., 2006).

图片



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-5T4 antibody [EPR5529] (ab134162)

Immunohistochemical staining using ab134162 on paraffin embedded human placenta tissue.



Western blot - Anti-5T4 antibody [EPR5529] (ab134162)

All lanes : Anti-5T4 antibody [EPR5529] (ab134162) at 1/1000 dilution

Lane 1 : Wild-type MCF7 (Human breast adenocarcinoma cell line) whole cell lysate

Lane 2 : TPBG knockout MCF7 (Human breast adenocarcinoma cell line) whole cell lysate

Lane 3: HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 4: HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

Lysates/proteins at 20 µg per lane.

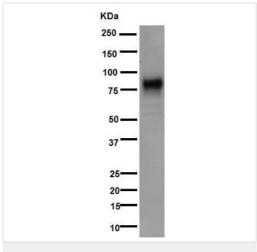
Performed under reducing conditions.

Predicted band size: 46 kDa **Observed band size:** 85 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab134162 observed at 85 kDa. Red - loading control <u>ab8245</u> (Mouse anti-GAPDH antibody [6C5]) observed at 37 kDa.

ab134162 was shown to react with 5T4 in wild-type MCF7 cells in Western blot with loss of signal observed in TPBG knockout cell line ab269499 (knockout cell lysate ab269661). Wild-type MCF7 and TPBG knockout cell lysates were subjected to SDS-PAGE.

Membranes were blocked in before incubation with ab134162 and ab8245 (Mouse anti-GAPDH antibody [6C5]) overnight at 4 °C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye[®] 800CW) preabsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye[®] 680RD) preabsorbed (ab216776) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



Anti-5T4 antibody [EPR5529] (ab134162) at 1/500 dilution (unpurified) + HT-29 cell lysate at 20 μg

Secondary

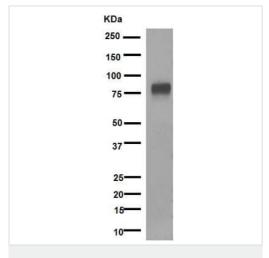
Peroxidase conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 46 kDa **Observed band size:** 72-80 kDa

Western blot - Anti-5T4 antibody [EPR5529] (ab134162)

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Anti-5T4 antibody [EPR5529] (ab134162) at 1/5000 dilution (purified) + HT-29 cell lysate at 20 μ g

Secondary

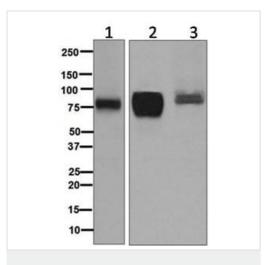
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Western blot - Anti-5T4 antibody [EPR5529] (ab134162)

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-5T4 antibody [EPR5529] (ab134162)

All lanes : Anti-5T4 antibody [EPR5529] (ab134162) at 1/1000 dilution (unpurified format)

Lane 1 : HT-29 cell lysates

Lane 2 : HT-1376 cell lysates

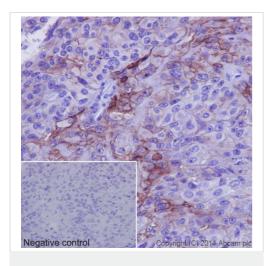
Lane 3 : Caco-2 cell lysates

Lysates/proteins at 10 µg per lane.

Secondary

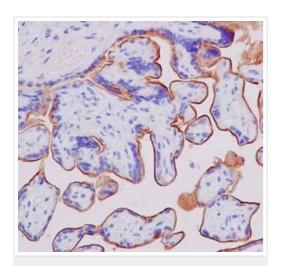
All lanes: HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 46 kDa



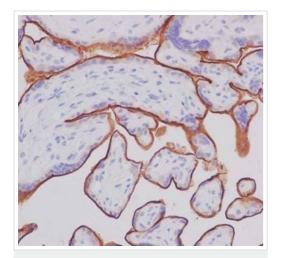
Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-5T4 antibody [EPR5529] (ab134162)

Immunohistochemical staining using ab134162 on paraffin embedded human endometrial cancer.



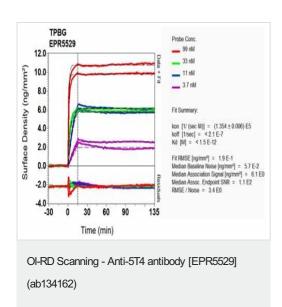
Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-5T4 antibody [EPR5529] (ab134162)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human placenta tissue labelling 5T4 with unpurified ab134162 at 1/100. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit lgG was used as the secondary antibody. Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



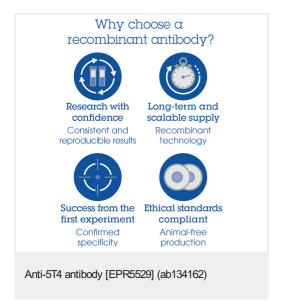
Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-5T4 antibody [EPR5529] (ab134162)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human placenta tissue labelling 5T4 with purified ab134162 at 1/1000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit lgG was used as the secondary antibody. Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Equilibrium disassociation constant (K_D) Learn more about K_D

Click here to learn more about K_D



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