


Anti-Gankyrin antibody [EPR14455] ab182576

敲除验证
重组
RabMAb

★★★★★
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概述

产品名称	Anti-Gankyrin抗体[EPR14455]
描述	兔单克隆抗体[EPR14455] to Gankyrin
宿主	Rabbit
经测试应用	适用于: Flow Cyt (Intra), ICC/IF, IHC-P, WB
种属反应性	与反应: Human 预测可用于: Mouse, Rat 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	HeLa, HepG2, K562 and 293 cell lysate; Human infiltrating duct carcinoma of breast and lung adenocarcinoma tissues; 293 cells; K562 cells.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR14455

同种型

IgG

应用

The Abpromise guarantee **Abpromise™** 承诺保证使用 ab182576 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
Flow Cyt (Intra)		1/80. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/100.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB	★★★★★ (2)	1/1000 - 1/10000. Detects a band of approximately 24 kDa (predicted molecular weight: 24 kDa).

靶标

功能

Acts as a chaperone during the assembly of the 26S proteasome, specifically of the PA700/19S regulatory complex (RC). In the initial step of the base subcomplex assembly is part of an intermediate PSMD10:PSMC4:PSMC5:PAAF1 module which probably assembles with a PSMD5:PSMC2:PSMC1:PSMD2 module.

Acts as an proto-oncoprotein by being involved in negative regulation of tumor suppressors RB1 and p53/TP53. Overexpression is leading to phosphorylation of RB1 and proteasomal degradation of RB1. Regulates CDK4-mediated phosphorylation of RB1 by competing with CDKN2A for binding with CDK4. Facilitates binding of MDM2 to p53/TP53 and the mono- and polyubiquitination of p53/TP53 by MDM2 suggesting a function in targeting the TP53:MDM2 complex to the 26S proteasome. Involved in p53-independent apoptosis. Involved in regulation of NF-kappa-B by retaining it in the cytoplasm. Binds to the NF-kappa-B component RELA and accelerates its XPO1/CRM1-mediated nuclear export.

组织特异性

Overexpressed in hepatocellular carcinomas.

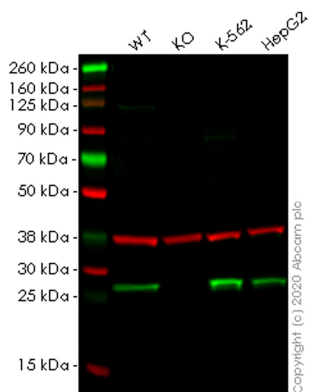
序列相似性

Contains 7 ANK repeats.

细胞定位

Cytoplasm. Nucleus.

图片



Western blot - Anti-Gankyrin antibody [EPR14455] (ab182576)

All lanes : Anti-Gankyrin antibody [EPR14455] (ab182576) at 1/1000 dilution

Lane 1 : Wild-type HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 2 : PSMD10 knockout HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 3 : K562 (Human chronic myelogenous leukemia lymphoblast cell line) whole cell lysate

Lane 4 : HepG2 (Human liver hepatocellular carcinoma cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

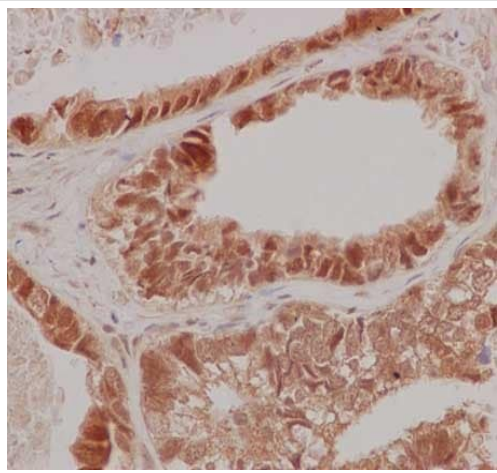
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 24 kDa

Observed band size: 24 kDa

Lanes 1-4: Merged signal (red and green). Green - ab182576 observed at 24 kDa. Red - loading control **ab8245** observed at 36 kDa.

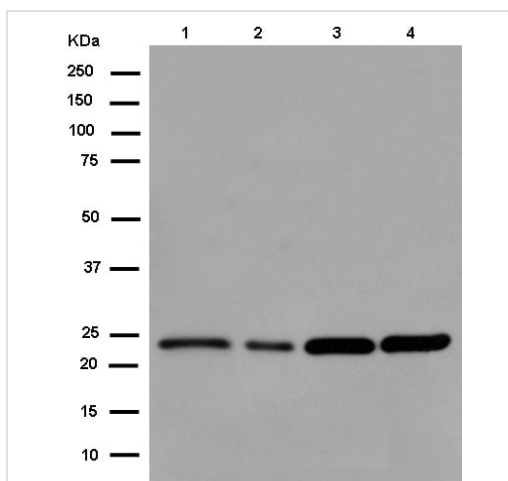
ab182576 Anti-Gankyrin antibody [EPR14455] was shown to specifically react with Gankyrin in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265680** (knockout cell lysate **ab258146**) was used. Wild-type and Gankyrin knockout samples were subjected to SDS-PAGE. ab182576 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Gankyrin antibody [EPR14455] (ab182576)

Immunohistochemical analysis of paraffin-embedded Human lung adenocarcinoma tissue labeling Gankyrin using ab182576 at 1/100 dilution. A Ready to use HRP Polymer for Rabbit IgG was used as secondary. Counterstain: Hematoxylin.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Western blot - Anti-Gankyrin antibody [EPR14455] (ab182576)

All lanes : Anti-Gankyrin antibody [EPR14455] (ab182576) at 1/10000 dilution

Lane 1 : HeLa cell lysate

Lane 2 : HepG2 cell lysate

Lane 3 : K562 cell lysate

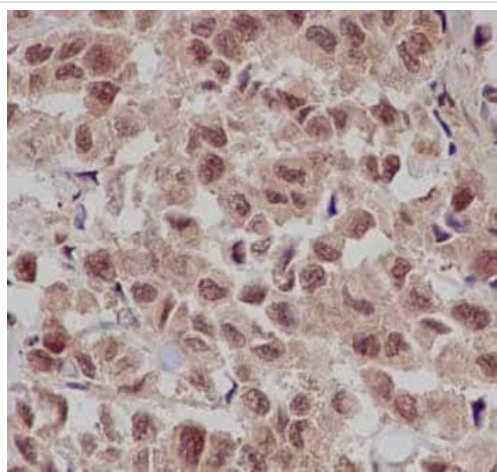
Lane 4 : 293 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 24 kDa

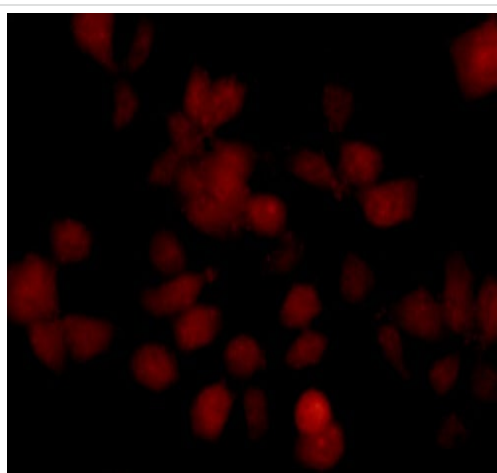


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Gankyrin antibody [EPR14455] (ab182576)

Immunohistochemical analysis of paraffin-embedded human infiltrating duct carcinoma of breast tissue labeling Gankyrin using ab182576 at 1/100 dilution. A ready to use HRP Polymer for Rabbit IgG was used as secondary.

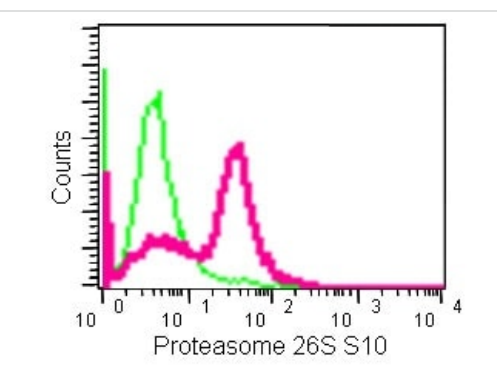
Counterstain: Hematoxylin.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-Gankyrin antibody [EPR14455] (ab182576)

Immunofluorescence analysis of 293 cells labeling Gankyrin using ab182576 at 1/100 dilution. A Goat anti rabbit IgG (Alexa Fluor555) at 1/200 dilution was used as secondary antibody. Cells were fixed with 4% paraformaldehyde.



Flow Cytometry (Intracellular) - Anti-Gankyrin antibody [EPR14455] (ab182576)

Intracellular Flow Cytometry analysis of K562 cells labeling Gankyrin using ab182576 at 1/80 dilution. A Goat anti rabbit IgG (FITC) at 1/150 dilution was used as secondary antibody. Cells were fixed with 2% paraformaldehyde. Isotype control: Rabbit monoclonal IgG.

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Anti-Gankyrin antibody [EPR14455] (ab182576)

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