abcam

Product datasheet

Anti-Gankyrin antibody [EPR14456(2)] ab188315

KO VALIDATED Recombinant RabMAb

4 Abreviews 6 Images

Overview

Product name	Anti-Gankyrin antibody [EPR14456(2)]
Description	Rabbit monoclonal [EPR14456(2)] to Gankyrin
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Hela, HepG2, 293, C6, Raw264.7 and K562 cell lysates. HeLa cells.
General notes	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**.

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR14456(2)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab188315 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/110. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ **(2)**	1/1000 - 1/10000. Predicted molecular weight: 24 kDa.

Target

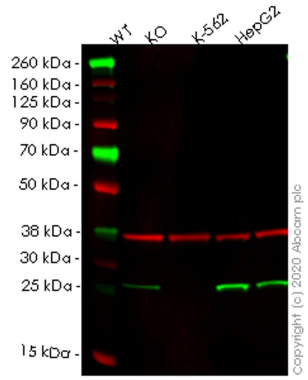
Function Acts as a chaperone during the assembly of the 26S proteasome, specifically of the PA700/19S regulatory complex (RC). In the initial step of the base subcomplex assembly is part of an intermediate PSMD10:PSMC4:PSMC5:PAAF1 module which probably assembles with a PSMD5:PSMC2:PSMC1:PSMD2 module.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

Tissue specificity Overexpressed in hepatocellular carcinomas.

Sequence similarities Contains 7 ANK repeats.

Cellular localization Cytoplasm. Nucleus.

Images



Western blot - Anti-Gankyrin antibody [EPR14456(2)] (ab188315)

All lanes : Anti-Gankyrin antibody [EPR14456(2)] (ab188315) 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

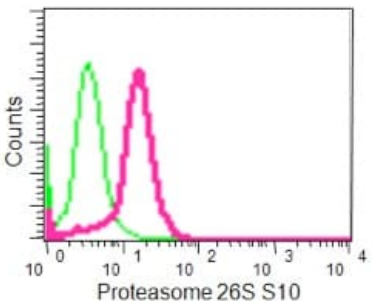
Lysates/proteins at 20 µg per lane.

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

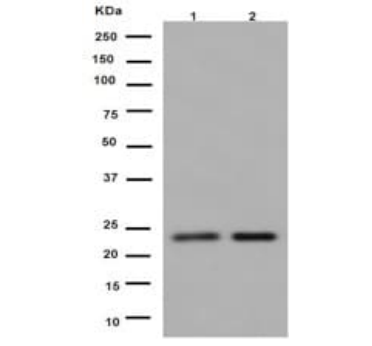
Lanes 1-4: Merged signal (red and green). Green - ab188315 observed at 24 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab188315 Anti-Gankyrin antibody [EPR14456(2)] 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. ab188315 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.



Flow Cytometry (Intracellular) - Anti-Gankyrin antibody [EPR14456(2)] (ab188315)

Intracellular flow cytometric analysis of HeLa cells fixed in 2% paraformaldehyde labeling Gankyrin with ab188315 at 1/110 dilution and Goat anti-rabbit IgG (FITC) at 1/150 dilution. Rabbit monoclonal IgG was used as an isotype control.



Western blot - Anti-Gankyrin antibody [EPR14456(2)] (ab188315)

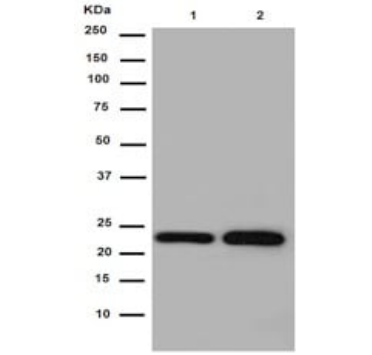
All lanes : Anti-Gankyrin antibody [EPR14456(2)] (ab188315) at 1/1000 dilution

Lane 1 : C6 cell lysate
Lane 2 : Raw 264.7 cell lysate

Lysates/proteins at 10 µg per lane.

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

Predicted band size: 24 kDa



Western blot - Anti-Gankyrin antibody [EPR14456(2)] (ab188315)

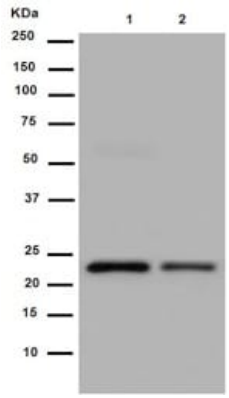
All lanes : Anti-Gankyrin antibody [EPR14456(2)] (ab188315) at 1/1000 dilution

Lane 1 : HepG2 cell lysate
Lane 2 : 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



Western blot - Anti-Gankyrin antibody [EPR14456(2)] (ab188315)

All lanes : Anti-Gankyrin antibody [EPR14456(2)] (ab188315) at 1/10000 dilution

Lane 1 : K562 cell lysate

Lane 2 : Hela 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

Anti-Gankyrin antibody [EPR14456(2)] (ab188315)

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