

Product datasheet

Anti-Gankyrin antibody [EPR14455] - BSA and Azide free ab238999

Recombinant RabMAb

[1 References](#) [6 Images](#)

Overview

Product name	Anti-Gankyrin antibody [EPR14455] - BSA and Azide free
Description	Rabbit monoclonal [EPR14455] to Gankyrin - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt, WB, ICC/IF, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human Gankyrin aa 1-100. The exact sequence is proprietary. Database link: O75832
Positive control	HeLa, HepG2, K562 and 293 cell lysate; Human infiltrating duct carcinoma of breast and lung adenocarcinoma tissues; 293 cells; K562 cells.
General notes	<p>ab238999 is the carrier-free version of ab182576 This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.</p> <p>Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>Ab238999 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm. <i>Maxpar® is a trademark of Fluidigm Canada Inc.</i></p> <p>Previously labelled as Proteasome 26S S10.</p> <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>

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR14455
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab238999** 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		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 24 kDa (predicted molecular weight: 24 kDa).
ICC/IF		Use at an assay dependent concentration.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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.

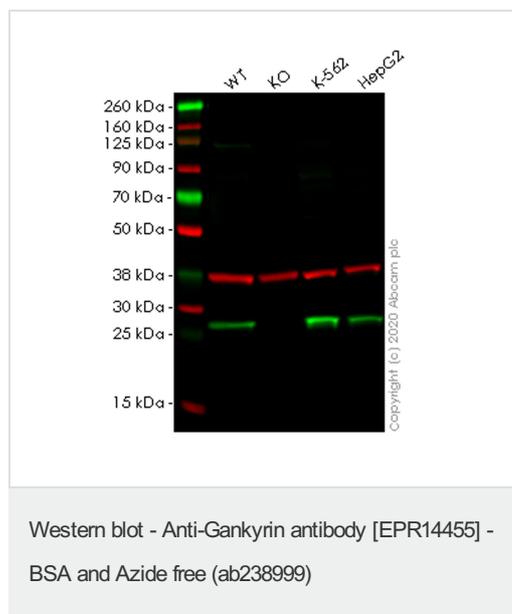
Sequence similarities

Contains 7 ANK repeats.

Cellular localization

Cytoplasm. Nucleus.

Images



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

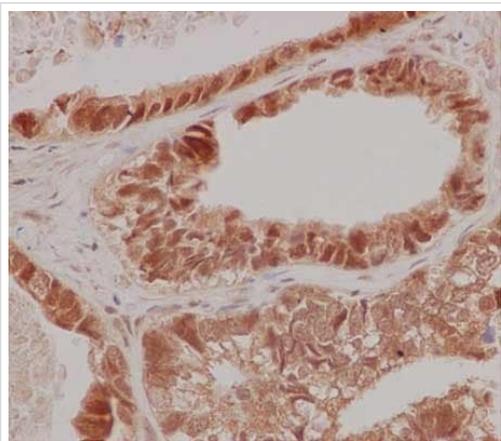
Predicted band size: 24 kDa

Observed band size: 24 kDa

This data was developed using [ab182576](#), the same antibody clone in a different buffer formulation.

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.

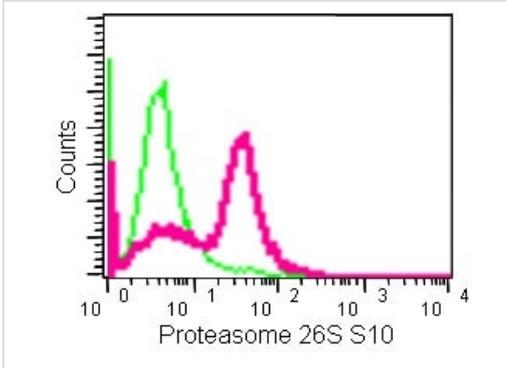


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Gankyrin antibody [EPR14455] - BSA and Azide free ([ab238999](#))

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab182576](#)).

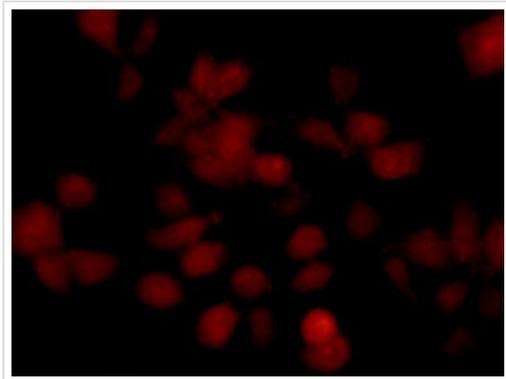
Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Flow Cytometry - Anti-Gankyrin antibody
[EPR14455] - BSA and Azide free (ab238999)

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.

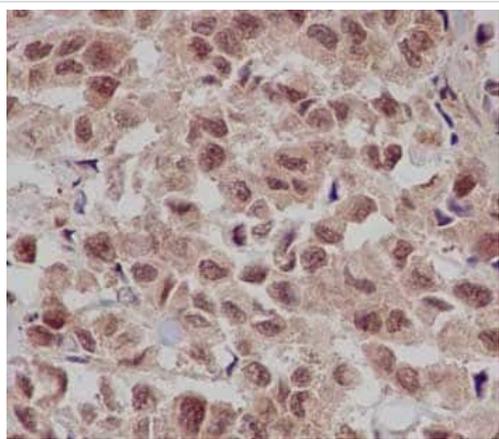
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab182576](#)).



Immunocytochemistry/ Immunofluorescence - Anti-Gankyrin antibody [EPR14455] - BSA and Azide free (ab238999)

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab182576](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Gankyrin antibody [EPR14455] - BSA and Azide free (ab238999)

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol and sodium azide ([ab182576](#)).

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

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-Gankyrin antibody [EPR14455] - BSA and Azide free (ab238999)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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