

Product datasheet

Anti-GPA33 antibody [EPR4240] ab108938

Recombinant RabMAb

★★★★★ [2 Abreviews](#) [4 References](#) [12 Images](#)

Overview

Product name	Anti-GPA33 antibody [EPR4240]
Description	Rabbit monoclonal [EPR4240] to GPA33
Host species	Rabbit
Tested applications	Suitable for: WB, IP, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human small intestine, colon and fetal colon tissue lysates; HT-29 and MOLT-4 cell lysates; IHC-P: Human colon tissue. Human colon cancer tissue. Human ovarian cancer tissue; IP: HT-29 cell lysate.
General notes	<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> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

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	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 0.05% BSA, 40% Glycerol, 59% PBS</p>
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR4240
Isotype	IgG

Applications

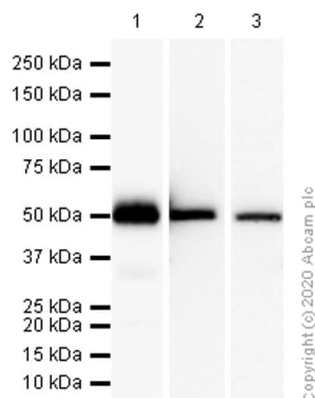
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab108938 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	1/1000. Predicted molecular weight: 36 kDa. For unpurified use at 1/1000 - 1/10000.
IP		1/20. For unpurified use at 1/10 - 1/100.
IHC-P	★★★★★ (1)	1/400. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Antigen retrieval recommended; heat up to 98 degrees C, below boiling, and then let cool for 10-20 min. See <u>IHC antigen retrieval protocols</u> . For unpurified use at 1/250 - 1/500.

Target

Function	May play a role in cell-cell recognition and signaling.
Tissue specificity	Expressed in normal gastrointestinal epithelium and in 95% of colon cancers.
Sequence similarities	Contains 1 Ig-like C2-type (immunoglobulin-like) domain. Contains 1 Ig-like V-type (immunoglobulin-like) domain.
Post-translational modifications	N-glycosylated, contains approximately 8 kDa of N-linked carbohydrate. Palmitoylated.
Cellular localization	Membrane.

Images



Western blot - Anti-GPA33 antibody [EPR4240]
(ab108938)

All lanes : Anti-GPA33 antibody [EPR4240] (ab108938) at 1/1000 dilution (Purified)

Lane 1 : Human colon lysates

Lane 2 : HT-29 (Human colorectal adenocarcinoma epithelial cell) whole cell lysates

Lane 3 : MOLT-4 (Human lymphoblastic leukemia T lymphoblast) whole cell lysates

Lysates/proteins at 20 µg per lane.

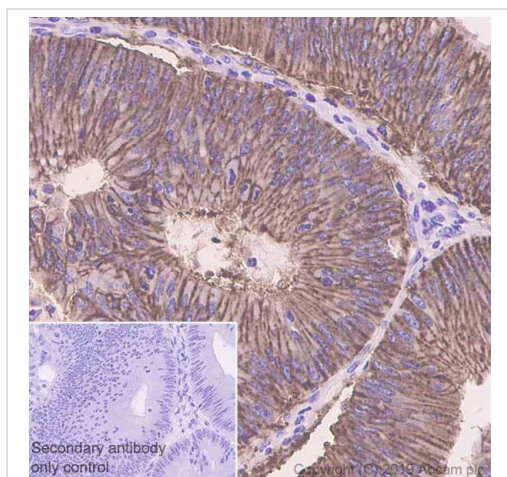
Secondary

All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 36 kDa

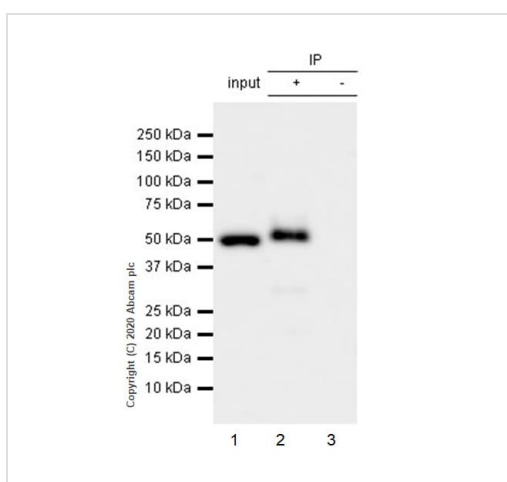
Observed band size: 50 kDa

Blocking/Diluting buffer: 5% NFDM/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GPA33 antibody [EPR4240] (ab108938)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon cancer tissue sections labeling GPA33 with Purified ab108938 at 1:400 dilution (0.25 µg/ml). Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Immunoprecipitation - Anti-GPA33 antibody [EPR4240] (ab108938)

Purified ab108938 at 1:20 dilution (0.5ug) immunoprecipitating GPA33 in HT-29 whole cell lysate.

Lane 1 (input): HT-29 (Human colorectal adenocarcinoma epithelial cell) whole cell lysate (10µg)

Lane 2 (+): ab108938 + HT-29 whole cell lysate.

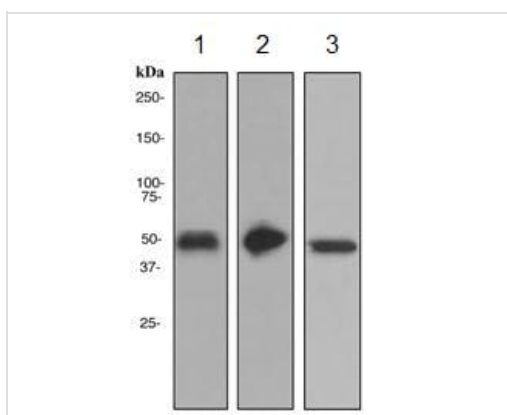
Lane 3 (-): Rabbit monoclonal IgG ([ab172730](#)) instead of ab108938 in HT-29 whole cell lysate.

VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) (1/1000) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM/TBST.

Observed band size: 50 kDa



Western blot - Anti-GPA33 antibody [EPR4240] (ab108938)

All lanes : Anti-GPA33 antibody [EPR4240] (ab108938) at 1/1000 dilution (unpurified)

Lane 1 : HT-29 lysate

Lane 2 : Human small intestine lysate

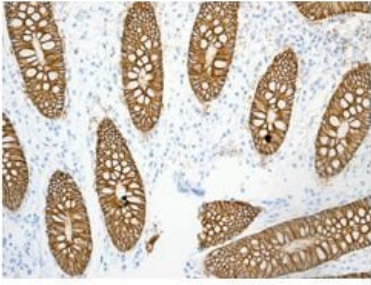
Lane 3 : Human fetal colon lysates

Lysates/proteins at 10 µg per lane.

Secondary

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

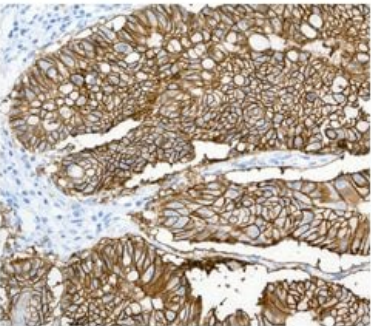
Predicted band size: 36 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GPA33 antibody [EPR4240] (ab108938)

Unpurified ab108938 at 1/250 dilution staining GPA33 in paraffin-embedded Human colon tissue by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections).

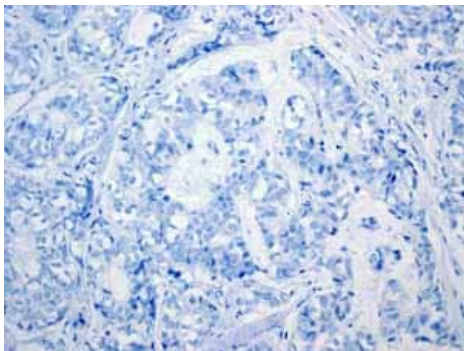
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GPA33 antibody [EPR4240] (ab108938)

Unpurified ab108938 at 1/250 dilution staining GPA33 in paraffin-embedded Human colonic adenocarcinoma tissue by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections).

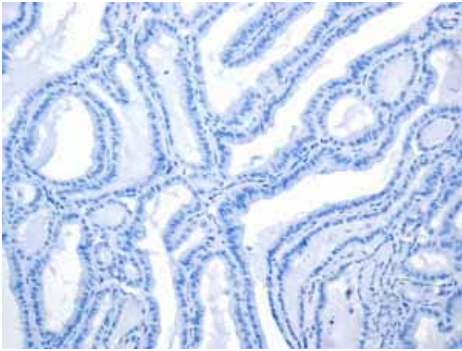
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GPA33 antibody [EPR4240] (ab108938)

Unpurified ab108938 showing negative staining in Breast carcinoma tissue.

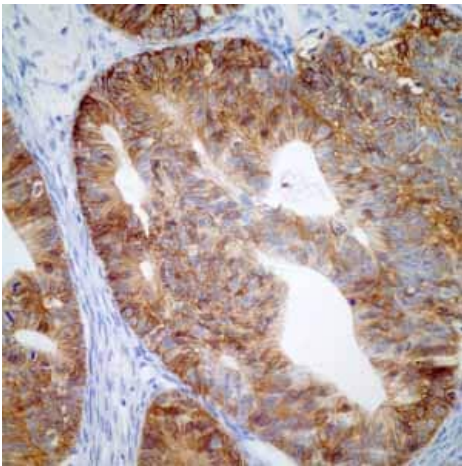
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GPA33 antibody [EPR4240] (ab108938)

Unpurified ab108938 showing negative staining in Thyroid gland carcinoma tissue.

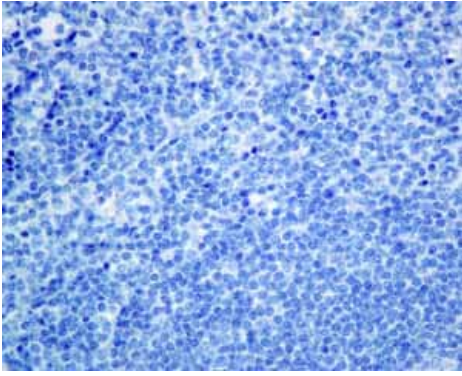
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GPA33 antibody [EPR4240] (ab108938)

Unpurified ab108938 showing positive staining in Ovarian carcinoma tissue.

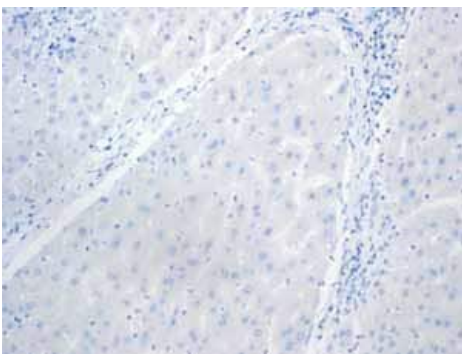
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GPA33 antibody [EPR4240] (ab108938)

Unpurified ab108938 showing negative staining in Normal tonsil tissue.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GPA33 antibody [EPR4240] (ab108938)

Unpurified ab108938 showing negative staining in Normal liver tissue.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-GPA33 antibody [EPR4240] (ab108938)

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

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