abcam

Product datasheet

Anti-Rab3D antibody [EPR8106] - BSA and Azide free ab248251

Recombinant RabMAb

7 Images

Overview

Product name	Anti-Rab3D antibody [EPR8106] - BSA and Azide free
Description	Rabbit monoclonal [EPR8106] to Rab3D - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, mIHC, WB **Unsuitable for:** Flow Cyt,ICC/IF or IP
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	BxPC-3, T.T, A549, or HT-29 lysate, Human clear cell carcinoma tissue, Human stomach tissue. mIHC: Human stomach tissue.
General notes	ab248251 is the carrier-free version of **ab128997**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. 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. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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**.

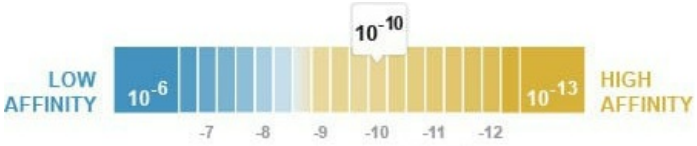
Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at +4°C. Do Not Freeze.

Dissociation constant (K_D) $K_D = 3.36 \times 10^{-10}$ M



Learn more about K_D

Storage buffer pH: 7.2
Constituent: PBS

Carrier free Yes

Purity Protein A purified

Clonality Monoclonal

Clone number EPR8106

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab248251 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
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
mIHC		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 25 kDa (predicted molecular weight: 25 kDa).

Application notes Is unsuitable for Flow Cyt,ICC/IF or IP.

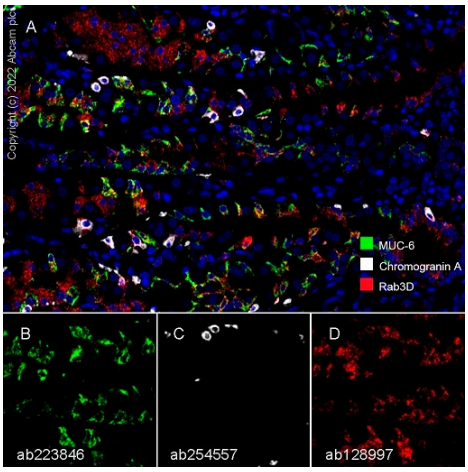
Target

Function Protein transport. Probably involved in regulated exocytosis.

Tissue specificity Highly expressed in granulocytes of peripheral blood. Constitutively expressed at low levels in all hematopoietic cell lines investigated.

Sequence similarities	Belongs to the small GTPase superfamily. Rab family.
Cellular localization	Cell membrane.

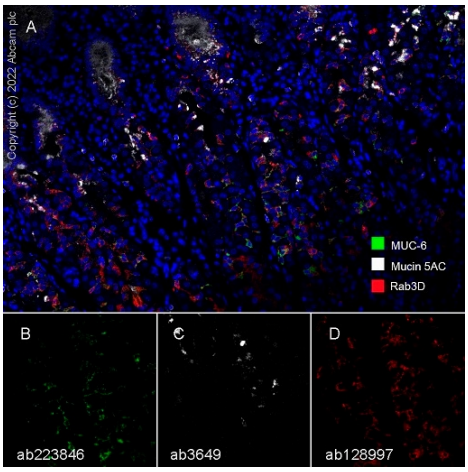
Images



Multiplex immunohistochemistry - Anti-Rab3D antibody [EPR8106] - BSA and Azide free (ab248251)

Fluorescence multiplex immunohistochemical analysis of the human stomach (Formalin/PFA-fixed paraffin-embedded sections). Panel A: merged staining of anti-Chromogranin A (**ab254557**, gray; Opal™690), anti-MUC-6 (**ab223846**, green; Opal™520) and anti-Rab3D (**ab128997**, red; Opal™570) on human stomach. Panel B: anti-MUC-6 stained on mucous neck cells. Panel C: anti-Chromogranin A stained on neuroendocrine cells. Panel D: anti-Rab3D stained on Chief cells. Opal Polymer HRP Ms + Rb was used as a secondary antibody. The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. The section was incubated in three rounds of staining: in the order of **ab254557** (1/5000), **ab223846** (1/1000), and **ab128997** (1/10000) for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Leica SP8 confocal microscope.

This data was developed using **ab128997**, the same antibody clone in a different buffer formulation.

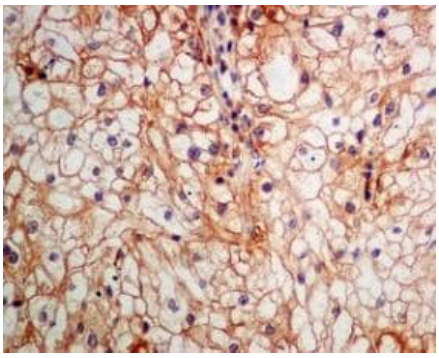


Multiplex immunohistochemistry - Anti-Rab3D antibody [EPR8106] - BSA and Azide free (ab248251)

Fluorescence multiplex immunohistochemical analysis of the human stomach (Formalin/PFA-fixed paraffin-embedded sections). Panel A: merged staining of anti-Mucin 5AC (**ab3649**, gray; Opal™690), anti-MUC-6 (**ab223846**, green; Opal™520) and anti-Rab3D (**ab128997**, red; Opal™570) on human stomach. Panel B: anti-MUC-6 stained on mucous neck cells. Panel C: anti-Mucin 5AC stained on surface mucous cells. Panel D: anti-Rab3D stained on Chief cells. Opal Polymer HRP Ms + Rb was used as a secondary antibody. The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. The section was incubated in three rounds of staining: in the order of **ab3649** (1/5000 dilution), **ab223846** (1/1000 dilution), and **ab128997** (1/10000 dilution) for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) was used for 20 mins. DAPI (blue) was used as a nuclear counter stain. Image

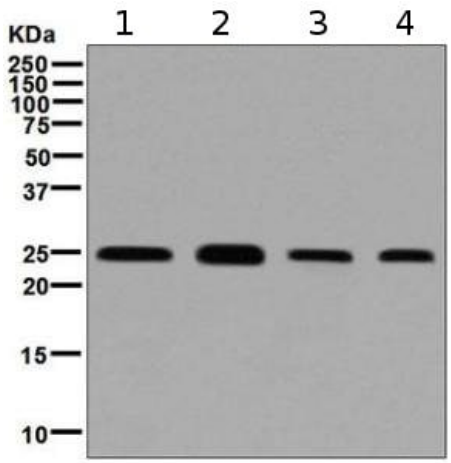
acquisition was performed with Leica SP8 confocal microscope.

This data was developed using **ab128997**, the same antibody clone in a different buffer formulation.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rab3D antibody [EPR8106] - BSA and Azide free (ab248251)

This data was developed using **ab128997**, the same antibody clone in a different buffer formulation.**ab128997**, at a 1/250 dilution, staining Human Rab3D in clear cell carcinoma, using Immunohistochemistry, Formalin/PFA-fixed paraffin-emebedded tissue. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-Rab3D antibody [EPR8106] - BSA and Azide free (ab248251)

All lanes : Anti-Rab3D antibody [EPR8106] (**ab128997**) at 1/10000 dilution

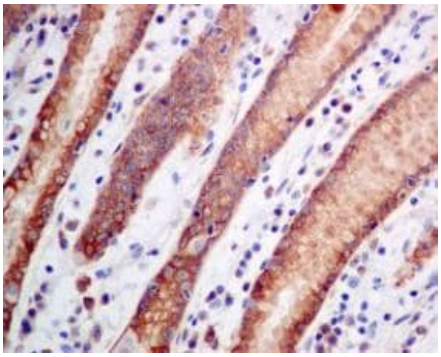
Lane 1 : BxPC-3 cell lysate
Lane 2 : T.T cell lysate
Lane 3 : A549 cell lysate
Lane 4 : HT-29 cell lysate

Lysates/proteins at 10 µg per lane.

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

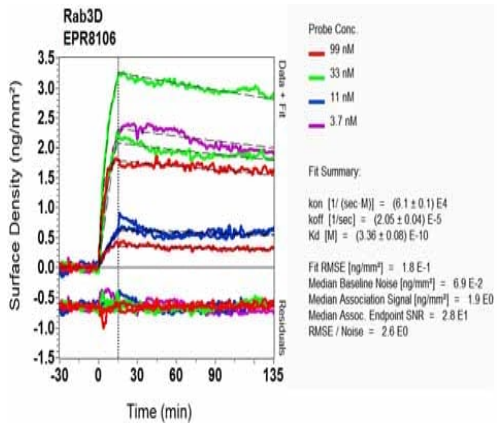
Predicted band size: 25 kDa
Observed band size: 25 kDa

This data was developed using **ab128997**, the same antibody clone in a different buffer formulation.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rab3D antibody [EPR8106] - BSA and Azide free (ab248251)

This data was developed using **ab128997**, the same antibody clone in a different buffer formulation.**ab128997**, at a 1/250 dilution, staining Human Rab3D in stomach, using Immunohistochemistry, Formalin/PFA-fixed paraffin-emebedded tissue Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



OI-RD Scanning - Anti-Rab3D antibody [EPR8106] - BSA and Azide free (ab248251)

This data was developed using **ab128997**, the same antibody clone in a different buffer formulation.Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D

Anti-Rab3D antibody [EPR8106] - BSA and Azide free (ab248251)

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