abcam

Product datasheet

Anti-SAMD9 antibody [EPR13603] - BSA and Azide free ab250226

KO VALIDATED Recombinant RabMAb

5 Images

Overview

Product name	Anti-SAMD9 antibody [EPR13603] - BSA and Azide free
Description	Rabbit monoclonal [EPR13603] to SAMD9 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF, Flow Cyt (Intra)
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: A549, A431 and MCF7 cell lysates. Flow Cyt (intra): A431 and MCF7 cells. ICC: A431 cells.
General notes	ab250226 is the carrier-free version of ab180575. 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. **We are constantly working hard to ensure we provide our customers with best in class**

antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

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	EPR13603
Isotype	IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab250226 in the following tested applications.

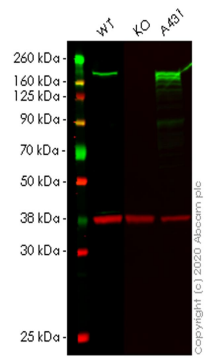
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 184 kDa.
ICC/IF		Use at an assay dependent concentration.
Flow Cyt (Intra)		Use at an assay dependent concentration.

Target

Tissue specificity	Widely expressed. Very low levels in skeletal muscle. Not detected in fetal brain. Down-regulated in aggressive fibromatosis, as well as in breast and colon cancers.
Involvement in disease	Defects in SAMD9 are the cause of normophosphatemic familial tumoral calcinosis (NFTC) [MIM:610455]. NFTC is an uncommon life-threatening disorder characterized by massive periarticular, and seldom visceral, deposition of calcified tumors.
Sequence similarities	Contains 1 SAM (sterile alpha motif) domain.
Cellular localization	Cytoplasm.

Images



Western blot - Anti-SAMD9 antibody [EPR13603] - BSA and Azide free (ab250226)

All lanes : Anti-SAMD9 antibody [EPR13603] (ab180575) at 1/1000 dilution

Lane 1 : Wild-type A549 cell lysate
Lane 2 : SAMD9 knockout A549 cell lysate
Lane 3 : A431 cell lysate

Lysates/proteins at 20 µg per lane.

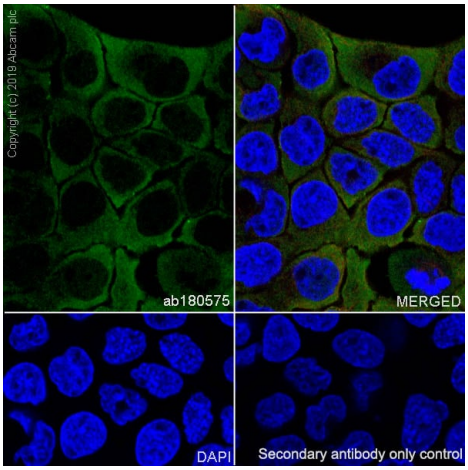
Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) at 1/10000 dilution

Predicted band size: 184 kDa
Observed band size: 184 kDa

This data was developed using ab180575, the same antibody clone in a different buffer formulation.

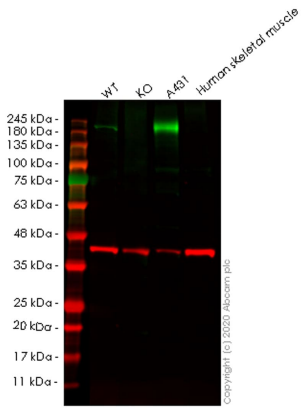
Lanes 1-3: Merged signal (red and green). Green - ab180575 observed at 184 kDa. Red - loading control ab8245 observed at 36 kDa.

ab180575 Anti-SAMD9 antibody [EPR13603] was shown to specifically react with SAMD9 in wild-type A549 cells. Loss of signal was observed when knockout cell line ab267039 (knockout cell lysate ab257657) was used. Wild-type and SAMD9 knockout samples were subjected to SDS-PAGE. ab180575 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.



Immunocytochemistry/ Immunofluorescence - Anti-SAMD9 antibody [EPR13603] - BSA and Azide free (ab250226)

Immunocytochemistry/ Immunofluorescence analysis of A431 (Human epidermoid carcinoma epithelial cell) cells labeling SAMD9 with purified ab180575 at 1:50 dilution (5.4 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with none. Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (anti samd9 antibody epr13603 immunocytochemistry a431 human)



Western blot - Anti-SAMD9 antibody [EPR13603] - BSA and Azide free (ab250226)

All lanes : Anti-SAMD9 antibody [EPR13603] (ab180575) at 1/1000 dilution

Lane 1 : Wild-type A549 cell lysate
Lane 2 : SAMD9 knockout A549 cell lysate
Lane 3 : A431 cell lysate
Lane 4 : Human skeletal muscle cell lysate

Lysates/proteins at 20 µg per lane.

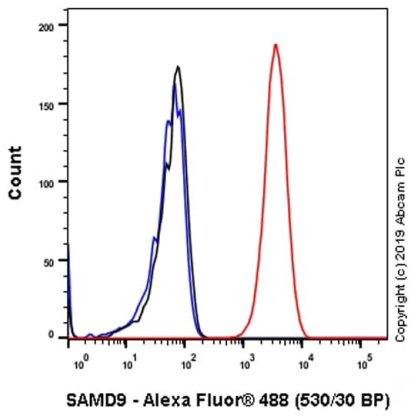
Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) at 1/10000 dilution

Predicted band size: 184 kDa
Observed band size: 184 kDa

This data was developed using the same antibody clone in a different buffer formulation (ab180575).

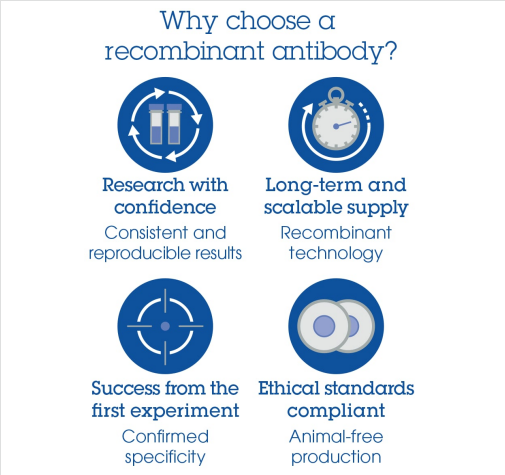
Lanes 1-4: Merged signal (red and green). Green - ab180575 observed at 184 kDa. Red - loading control ab8245 observed at 36 kDa.

ab180575 Anti-SAMD9 antibody [EPR13603] was shown to specifically react with SAMD9 in wild-type A549 cells. Loss of signal was observed when knockout cell line ab267038 (knockout cell lysate ab257656) was used. Wild-type and SAMD9 knockout samples were subjected to SDS-PAGE. ab180575 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) were incubated at room temperature for 2.5 hours 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-SAMD9 antibody [EPR13603] - BSA and Azide free (ab250226)

Intracellular Flow Cytometry analysis of MCF-7 (Human breast adenocarcinoma epithelial cell) cells labeling SAMD9 with purified ab180575 at 1/30 dilution (10 µg/ml) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue). This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab180575)



Anti-SAMD9 antibody [EPR13603] - BSA and Azide free (ab250226)

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