

Product datasheet

Anti-TMS1/ASC antibody [EPR10403] ab155970

Recombinant RabMAb

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

Overview

Product name	Anti-TMS1/ASC antibody [EPR10403]
Description	Rabbit monoclonal [EPR10403] to TMS1/ASC
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, ICC/IF Unsuitable for: IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human TMS1/ASC aa 100 to the C-terminus. The exact sequence is proprietary. Database link: Q9ULZ3
Positive control	WB: THP-1 and U937 cell lysates. ICC/IF: HeLa and THP-1 cells. Flow Cyt (intra): THP-1 cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 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 -20°C.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, PBS
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR10403

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab155970 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)		1/10 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/10000. Predicted molecular weight: 22 kDa.
ICC/IF		1/100 - 1/250.

Application notes Is unsuitable for IHC-P.

Target

Function Promotes caspase-mediated apoptosis. This proapoptotic activity is mediated predominantly through the activation of caspase-9. May be a component of the inflammasome, a protein complex which also includes NALP2, CARD8 and CASP1 and whose function would be the activation of proinflammatory caspases.

Tissue specificity Widely expressed at low levels. Detected in peripheral blood leukocytes, lung, small intestine, spleen, thymus, colon and at lower levels in placenta, liver and kidney. Very low expression in skeletal muscle, heart and brain. Detected in the leukemia cell lines HL-60 and U937, but not in Jurkat T-cell lymphoma and Daudi Burkitt's lymphoma. Detected in the melanoma cell line WM35, but not in WM793. Not detected in HeLa cervical carcinoma cells and Molt 4 lymphocytic leukemia cells.

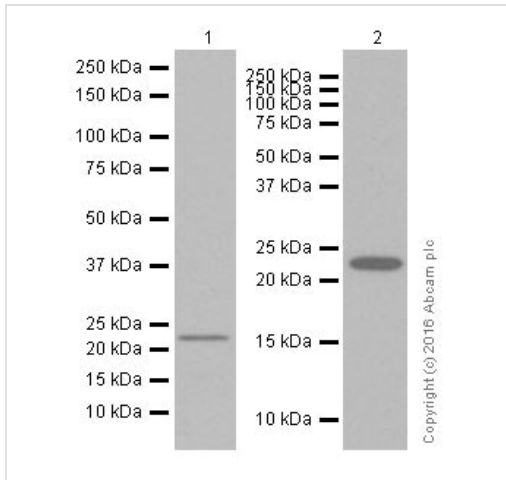
Sequence similarities Contains 1 CARD domain.
Contains 1 DAPIN domain.

Domain Interacts with CIAS1/PYPAF1 and PYDC1 via the DAPIN domain.

Post-translational modifications Phosphorylated.

Cellular localization Cytoplasm. Upstream of caspase activation, a redistribution from the cytoplasm to the aggregates occurs. These appear as hollow, perinuclear spherical, ball-like structures.

Images



Western blot - Anti-TMS1/ASC antibody [EPR10403] (ab155970)

All lanes : Anti-TMS1/ASC antibody [EPR10403] (ab155970) at 1/5000 dilution

Lane 1 : THP-1 (Human monocytic leukemia cell line) whole cell lysate

Lane 2 : U937 (Human histiocytic lymphoma cell line) whole cell lysate

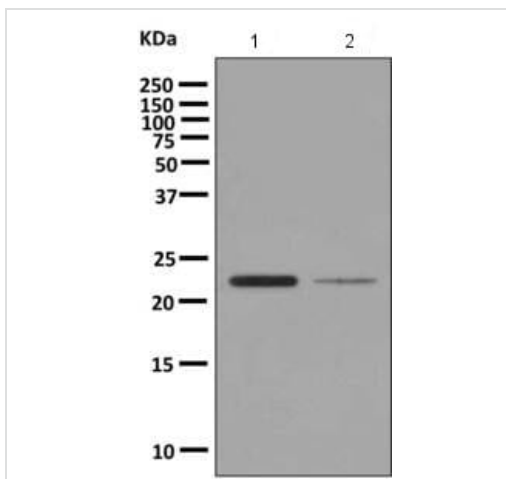
Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 20000 µg

Predicted band size: 22 kDa

Blocking and diluting buffer: 5% NFDm/TBST



Western blot - Anti-TMS1/ASC antibody [EPR10403] (ab155970)

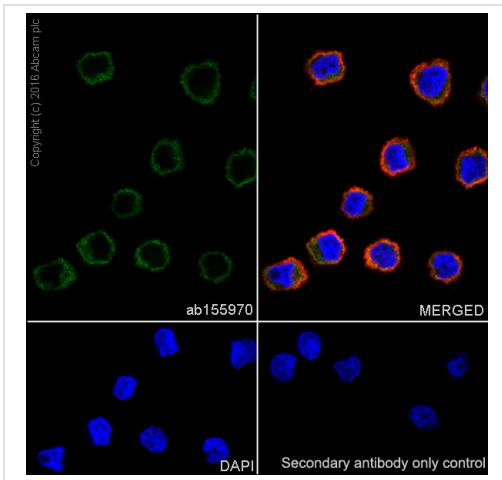
All lanes : Anti-TMS1/ASC antibody [EPR10403] (ab155970) at 1/1000 dilution

Lane 1 : THP1 cell lysate

Lane 2 : U937 cell lysate

Lysates/proteins at 10 µg per lane.

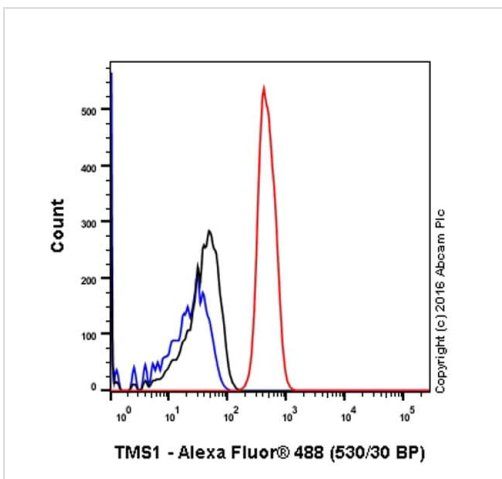
Predicted band size: 22 kDa



Immunocytochemistry/ Immunofluorescence - Anti-TMS1/ASC antibody [EPR10403] (ab155970)

ab155970 staining TMS1/ASC in U937 (Human histiocytic lymphoma cell line) cells by ICC/IF (Immunocytochemistry/immunofluorescence).

Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. Samples were incubated with primary antibody at a dilution of 1/250. A goat anti rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) was used as the secondary antibody at a dilution of 1/1000. [ab195889](#) was used as a counterstain for primary antibody ab155970 at 1/200. DAPI was used as a nuclear counterstain and FBS as a negative control.



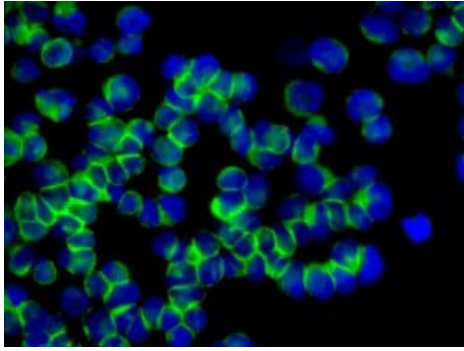
Flow Cytometry (Intracellular) - Anti-TMS1/ASC antibody [EPR10403] (ab155970)

ab155970 staining TMS1/ASC in the human cell line THP-1 (Human monocytic leukemia cell line) by intracellular flow cytometry.

Cells were fixed with 4% paraformaldehyde and the sample was incubated with the primary antibody at a dilution of 1/50. A goat anti rabbit IgG (Alexa Fluor® 488) at a dilution of 1/2000 was used as the secondary antibody.

Isoytype control: Rabbit monoclonal IgG (Black)

Unlabeled control: Cell without incubation with primary antibody and secondary antibody (Blue)



Immunofluorescence analysis of THP-1 (Human monocytic leukemia cell line) cells, labeling TMS1/ASC using ab155970 at a 1/100 dilution.

Immunocytochemistry/ Immunofluorescence - Anti-TMS1/ASC antibody [EPR10403] (ab155970)

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-TMS1/ASC antibody [EPR10403] (ab155970)

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

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