

Alexa Fluor® 647 Anti-TMS1/ASC antibody [EPR23978-28] ab300732

Recombinant RabMAb

3 Images

Overview

Product name	Alexa Fluor® 647 Anti-TMS1/ASC antibody [EPR23978-28]
Description	Alexa Fluor® 647 Rabbit monoclonal [EPR23978-28] to TMS1/ASC
Host species	Rabbit
Conjugation	Alexa Fluor® 647. Ex: 652nm, Em: 668nm
Tested applications	Suitable for: IHC-P
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Human tonsil and human colon carcinoma.
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>Alexa Fluor® is a registered trademark of Molecular Probes, Inc, a Thermo Fisher Scientific Company. The Alexa Fluor® dye included in this product is provided under an intellectual property license from Life Technologies Corporation. As this product contains the Alexa Fluor® dye, the purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). As this product contains the Alexa Fluor® dye the sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: (i) in manufacturing; (ii) to provide a service, information, or data in return for payment (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are sold for use in research. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, 5781 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@thermofisher.com.</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. Store In the Dark.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 68% PBS, 30% Glycerol (glycerin, glycerine), 1% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR23978-28
Isotype	IgG

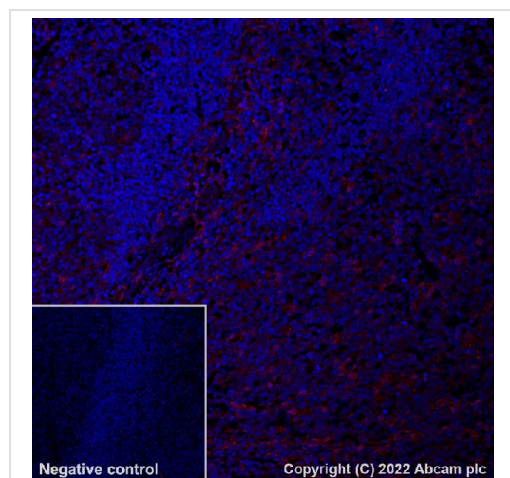
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab300732 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		1/100. Heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0)

Target

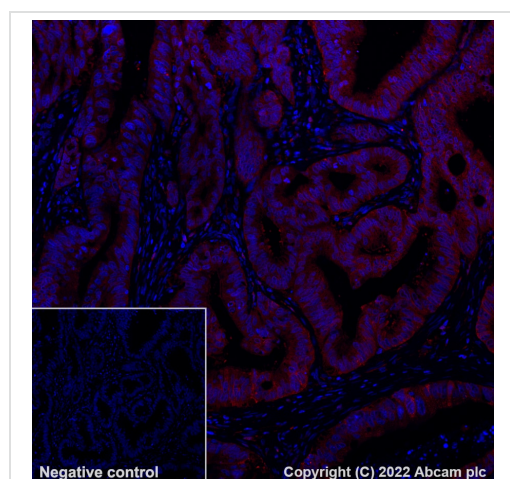
Function	Promotes caspase-mediated apoptosis. This proapoptotic activity is mediated predominantly through the activation of caspase-9. May be a component of the inflammasome, a protein complex which also includes NALP2, CARD8 and CASP1 and whose function would be the activation of proinflammatory caspases.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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Alexa Fluor® 647 Anti-TMS1/ASC antibody [EPR23978-28] (AB300732)

Immunohistochemical analysis of paraffin-embedded human tonsil tissue labeling TMS1/ASC with ab300732 at 1/100 (5.0 µg/ml). Positive staining on human tonsil is observed. The tissue section was first incubated with TBS containing 0.025% (v/v) Triton X-100, 0.3 M glycine and 1% (w/v) BSA for 1 h at room temperature to block non-specific protein-protein interactions, followed by overnight incubation at +4°C with ab300732 at 1/100 dilution in TBS containing 0.025% (v/v) Triton X-100 and 1% (w/v) BSA (shown in red). Nuclear DNA was labeled with DAPI (shown in blue). The section was then mounted using Fluoromount®. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Alexa Fluor® 647 Anti-TMS1/ASC antibody [EPR23978-28] (AB300732)

Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue labeling TMS1/ASC with ab300732 at 1/100 (5.0 µg/ml). Positive staining on human colon carcinoma is observed.

The tissue section was first incubated with TBS containing 0.025% (v/v) Triton X-100, 0.3 M glycine and 1% (w/v) BSA for 1 h at room temperature to block non-specific protein-protein interactions, followed by overnight incubation at +4°C with ab300732 at 1/100 dilution in TBS containing 0.025% (v/v) Triton X-100 and 1% (w/v) BSA (shown in red). Nuclear DNA was labeled with DAPI (shown in blue). The section was then mounted using Fluoromount®. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

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

Alexa Fluor® 647 Anti-TMS1/ASC antibody
[EPR23978-28] (AB300732)

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

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