

Anti-Stromal interaction molecule 1 antibody ab62031

★★★★★ [2 Abreviews](#) [5 References](#) [3 Images](#)

Overview

Product name	Anti-Stromal interaction molecule 1 antibody
Description	Rabbit polyclonal to Stromal interaction molecule 1
Host species	Rabbit
Specificity	ab62031 detects the larger isoform of Stromal interaction molecule 1 only. It is predicted to have no cross-reactivity with Stromal interaction molecule 2.
Tested applications	Suitable for: ICC/IF, WB, IHC-P
Species reactivity	Reacts with: Mouse
Immunogen	Raised against a 24 amino acid synthetic peptide from near the carboxy terminus of Human Stromal interaction molecule 1 (GenBank accession no. NP_003147).
Positive control	Mouse thymus tissue lysate
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab62031 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
ICC/IF	★ ★ ★ ★ ★ (1)	Use at an assay dependent concentration.
WB	★ ★ ★ ★ ★ (1)	Use a concentration of 1 - 2 µg/ml. Detects a band of approximately 90 kDa (predicted molecular weight: 77 kDa).
IHC-P		Use a concentration of 2.5 µg/ml.

Target

Function

Plays a role in mediating Ca(2+) influx following depletion of intracellular Ca(2+) stores. Acts as Ca(2+) sensor in the endoplasmic reticulum via its EF-hand domain. Upon Ca(2+) depletion, translocates from the endoplasmic reticulum to the plasma membrane where it activates the Ca(2+) release-activated Ca(2+) (CRAC) channel subunit, TMEM142A/ORAI1.

Tissue specificity

Ubiquitously expressed in various human primary cells and tumor cell lines.

Involvement in disease

Defects in STIM1 are the cause of immune dysfunction with T-cell inactivation due to calcium entry defect type 2 (IDTICED2) [MIM:612783]. IDTICED2 is an immune disorder characterized by recurrent infections, impaired T-cell activation and proliferative response, decreased T-cell production of cytokines, lymphadenopathy, and normal lymphocytes counts and serum immunoglobulin levels. Additional features include thrombocytopenia, autoimmune hemolytic anemia, non-progressive myopathy, partial iris hypoplasia, hepatosplenomegaly and defective enamel dentition.

Sequence similarities

Contains 1 EF-hand domain.
Contains 1 SAM (sterile alpha motif) domain.

Domain

The microtubule tip localization signal (MtLS) motif; mediates interaction with MAPRE1 and targeting to the growing microtubule plus ends.

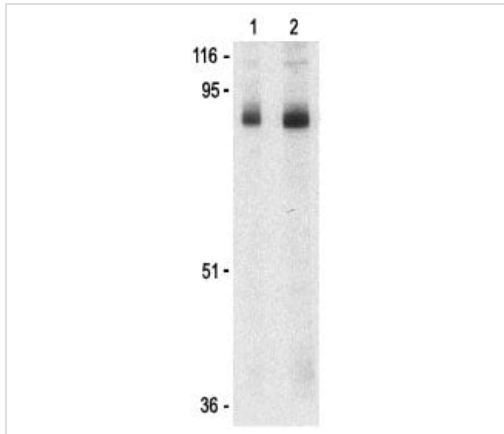
Post-translational modifications

Glycosylation is required for cell surface expression.
Phosphorylated predominantly on Ser residues.

Cellular localization

Cell membrane. Endoplasmic reticulum membrane. Cytoplasm > cytoskeleton. Translocates from the endoplasmic reticulum to the cell membrane in response to a depletion of intracellular calcium. Associated with the microtubule network at the growing distal tip of microtubules.

Images



Western blot - Anti-Stromal interaction molecule 1 antibody (ab62031)

Lane 1 : Anti-Stromal interaction molecule 1 antibody (ab62031) at 1 µg/ml

Lane 2 : Anti-Stromal interaction molecule 1 antibody (ab62031) at 2 µg/ml

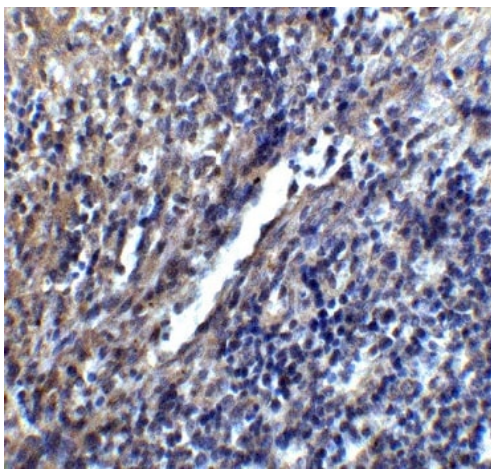
All lanes : Mouse thymus tissue lysate

Lysates/proteins at 15 µg per lane.

Predicted band size: 77 kDa

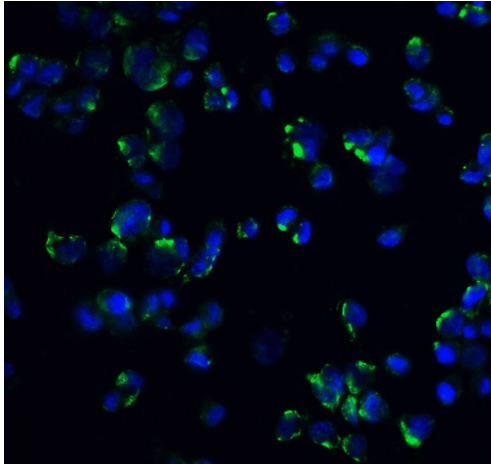
Observed band size: 90 kDa

Additional bands at: 116 kDa. We are unsure as to the identity of these extra bands.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Stromal interaction molecule 1 antibody (ab62031)

Immunohistochemistry (Formalin-fixed paraffin embedded sections) of mouse spleen tissue labeling Stromal interaction molecule 1 with Anti-Stromal interaction molecule 1 antibody (ab62031) at 5µg/ml.



Immunofluorescence of Stromal interaction molecule 1 in mouse spleen cells with ab62031 at 20 µg/mL.

Immunocytochemistry/ Immunofluorescence - Anti-Stromal interaction molecule 1 antibody (ab62031)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors