abcam

Product datasheet

Anti-SLAMF7/CS1 antibody [EPR21155] ab230945

Recombinant RabMAb

1 References 6 Images

Overview

Product name	Anti-SLAMF7/CS1 antibody [EPR21155]
Description	Rabbit monoclonal [EPR21155] to SLAMF7/CS1
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, IP
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human tonsil lysate; IM-9 whole cell lysate. IHC-P: Human tonsil, colon and human multiple myeloma tissue. IP: IM-9 whole cell lysate.
General notes	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**.

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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR21155
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab230945 in the following tested applications.

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

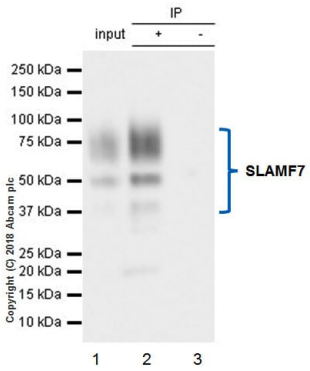
Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 37 kDa.
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		1/30.

Target

Relevance SLAMF7 contains one Ig-like C2-type (immunoglobulin-like) domain. Isoform 1 mediates NK cell activation through a SAP-independent extracellular signal-regulated ERK-mediated pathway. It may play a role in lymphocyte adhesion. Isoform 3 does not mediate any activation. SAP can bind the cytoplasmic tail of isoform 1 when phosphorylated in the presence of Fyn (in vitro). SLAMF7 is expressed in spleen, lymph node, peripheral blood leukocytes, bone marrow, small intestine, stomach, appendix, lung and trachea. Expression was detected in NK cells, activated B-cells, NK-cell line but not in promyelocytic, B-, or T-cell lines. The isoform 3 is expressed at much lower level than isoform 1. There are three named isoforms.

Cellular localization Membrane; Single-pass type I membrane protein.

Images



Immunoprecipitation - Anti-SLAMF7/CS1 antibody [EPR21155] (ab230945)

SLAMF7/CS1 was immunoprecipitated from 0.35 mg of IM-9 (human multiple myeloma B lymphoblast cell line) whole cell lysate with ab230945 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab230945 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/5000 dilution.

Lane 1: IM-9 whole cell lysate 10 µg (Input).

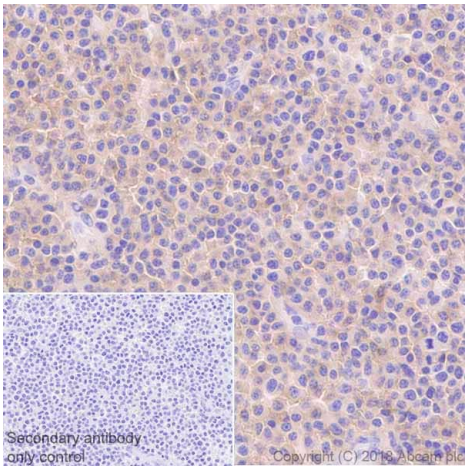
Lane 2: ab230945 IP in IM-9 whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab230945 in IM-9 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 8 seconds.

The expression profile observed is consistent with what has been described in the literature (PMID: 18451245; 11698418; 25312647), with the bands greater than 37 kDa predicted to be glycosylated SLAMF7/CS1.

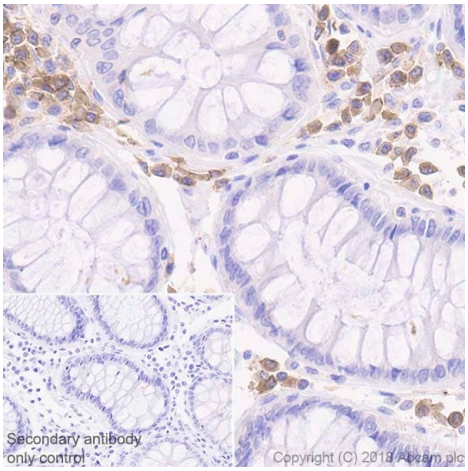


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLAMF7/CS1 antibody [EPR21155] (ab230945)

Immunohistochemical analysis of paraffin-embedded human multiple myeloma tissue labeling SLAMF7/CS1 with ab230945 at 1/2000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Mainly cytoplasmic staining in human multiple myeloma (PMID: 26005365; PMID: 18451245) is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

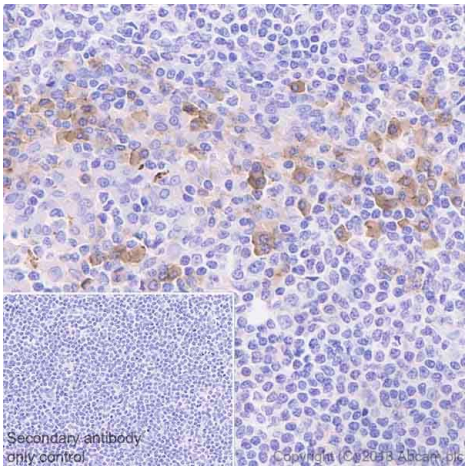


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLAMF7/CS1 antibody [EPR21155] (ab230945)

Immunohistochemical analysis of paraffin-embedded human colon tissue labeling SLAMF7/CS1 with ab230945 at 1/2000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Mainly cytoplasmic staining in plasma cells of human colon (PMID: 24299175) is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLAMF7/CS1 antibody [EPR21155] (ab230945)

Immunohistochemical analysis of paraffin-embedded human tonsil tissue labeling SLAMF7/CS1 with ab230945 at 1/2000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Mainly cytoplasmic staining in plasma cells of human tonsil is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

Western blot - Anti-SLAMF7/CS1 antibody [EPR21155] (ab230945)

All lanes : Anti-SLAMF7/CS1 antibody [EPR21155] (ab230945) at 1/1000 dilution

Lane 1 : Human tonsil tissue lysate
Lane 2 : IM-9 (human multiple myeloma B lymphoblast cell line), whole cell lysate

Lysates/proteins at 20 µg per lane.

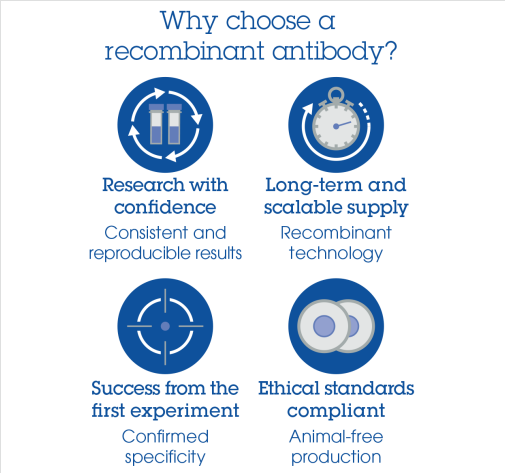
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Developed using the ECL technique.

Predicted band size: 37 kDa
Observed band size: 37,60 kDa

Blocking/diluting buffer and concentration: 5% NFDM/TBST.

The expression profile observed is consistent with what has been described in the literature (PMID: 18451245, 11698418, 25312647), with the bands greater than 37 kDa predicted to be glycosylated SLAMF7/CS1.



Anti-SLAMF7/CS1 antibody [EPR21155] (ab230945)

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