

Product datasheet

Anti-SLAMF7/CS1 antibody [EPR21155] - BSA and Azide free ab233090

Recombinant RabMAb

4 Images

Overview

Product name	Anti-SLAMF7/CS1 antibody [EPR21155] - BSA and Azide free
Description	Rabbit monoclonal [EPR21155] to SLAMF7/CS1 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, IP
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment within Human SLAMF7/CS1 aa 250 to the C-terminus. The exact sequence is proprietary. Database link: Q9NQ25
Positive control	IHC-P: Human multiple myeloma tissue.
General notes	<p>ab233090 is the carrier-free version of ab230945 This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.</p> <p>Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.</p> <p>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.</p> <p>Ab233090 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm. <i>Maxpar® is a trademark of Fluidigm Canada Inc.</i></p> <p>This product was previously labelled as SLAMF7</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>This product is a recombinant rabbit monoclonal antibody.</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.
Storage buffer	Constituent: PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR21155
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab233090** 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: 37 kDa.
IHC-P		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

Target

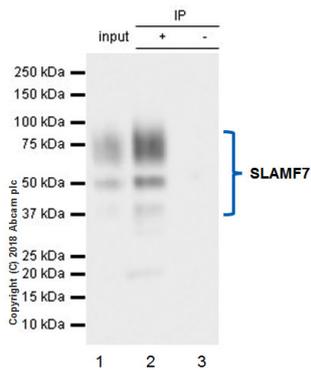
Relevance

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] - BSA and Azide free (ab233090)

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.

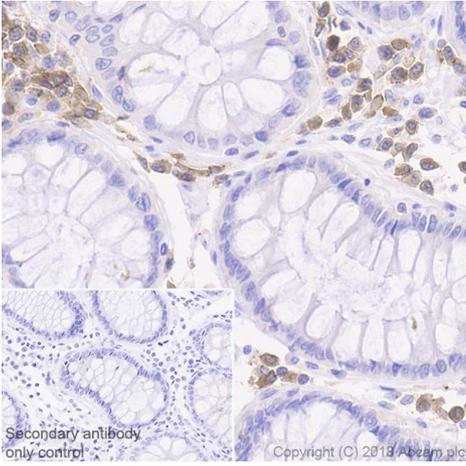
Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of [ab230945](#) in IM-9 whole cell lysate.

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab230945](#)).



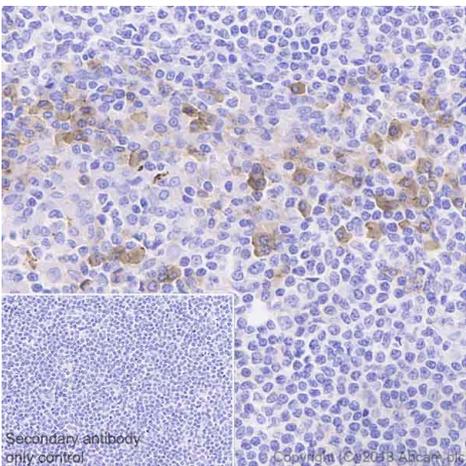
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLAMF7/CS1 antibody [EPR21155] - BSA and Azide free (ab233090)

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab230945](#)).



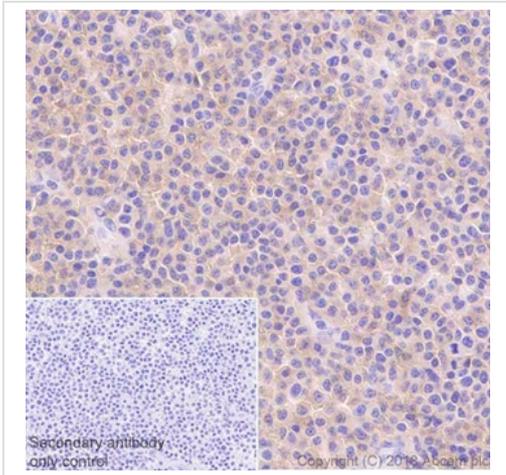
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLAMF7/CS1 antibody [EPR21155] - BSA and Azide free (ab233090)

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab230945](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLAMF7/CS1 antibody [EPR21155] - BSA and Azide free (ab233090)

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab230945](#)).

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