

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

Recombinant RabMAb

5 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. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Human multiple myeloma tissue.
General notes	<p>ab233090 is the carrier-free version of ab230945.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</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>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <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>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR21155
Isotype	IgG

Applications

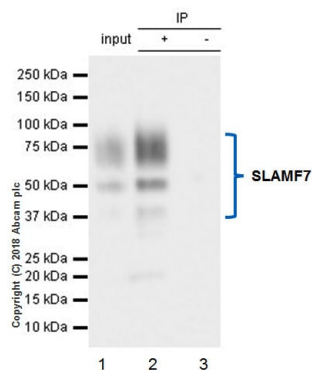
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab233090 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 37 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
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.

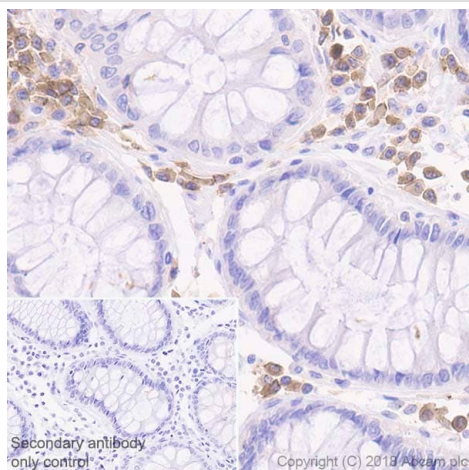
Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab230945** in IM-9 whole cell lysate.

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**).



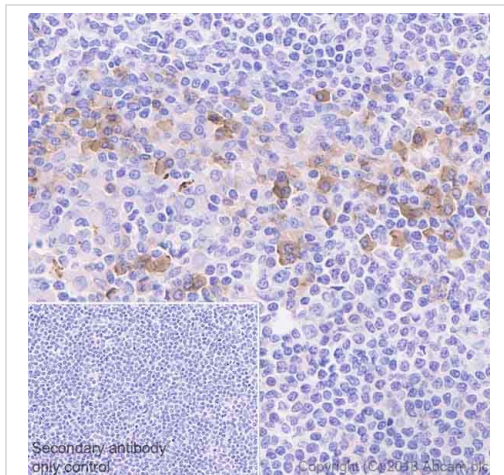
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLAMF7/CS1 antibody [EPR21155] - BSA and Azide free (ab233090)

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**).



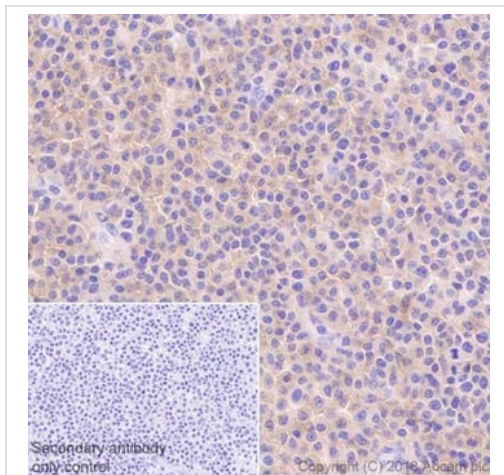
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SLAMF7/CS1 antibody [EPR21155] - BSA and Azide free (ab233090)

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](#)).

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

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