abcam

Product datasheet

Anti-ICOS Ligand/ICOSL antibody [EPR20786] ab230946

Recombinant RabMAb

4 Images

Overview

Product name	Anti-ICOS Ligand/ICOSL antibody [EPR20786]
Description	Rabbit monoclonal [EPR20786] to ICOS Ligand/ICOSL
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide within Human ICOS Ligand/ICOSL aa 50-150. The exact sequence is proprietary. Database link: O75144
Positive control	WB: His-tagged recombinant human ICOS Ligand/ICOSL protein (aa19-258); Untreated HUVEC whole cell lysate, HUVEC whole cell lysate treated with TNF-alpha; HuT-78 and JAR whole cell lysates. IP: JAR whole cell lysate.
General notes	This product was previously labelled as ICOS Ligand Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents. This product is a recombinant rabbit monoclonal antibody.

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	Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR20786
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab230946** 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. Detects a band of approximately 60 kDa (predicted molecular weight: 33 kDa).
IP		1/30.

Target

Function

Ligand for the T-cell-specific cell surface receptor ICOS. Acts as a costimulatory signal for T-cell proliferation and cytokine secretion; induces also B-cell proliferation and differentiation into plasma cells. Could play an important role in mediating local tissue responses to inflammatory conditions, as well as in modulating the secondary immune response by co-stimulating memory T-cell function.

Tissue specificity

Isoform 1 is widely expressed (brain, heart, kidney, liver, lung, pancreas, placenta, skeletal muscle, bone marrow, colon, ovary, prostate, testis, lymph nodes, leukocytes, spleen, thymus and tonsil), while isoform 2 is detected only in lymph nodes, leukocytes and spleen. Expressed on activated monocytes and dendritic cells.

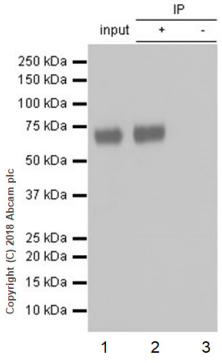
Sequence similarities

Belongs to the immunoglobulin superfamily. BTN/MOG family.
Contains 1 Ig-like C2-type (immunoglobulin-like) domain.
Contains 1 Ig-like V-type (immunoglobulin-like) domain.

Cellular localization

Membrane.

Images

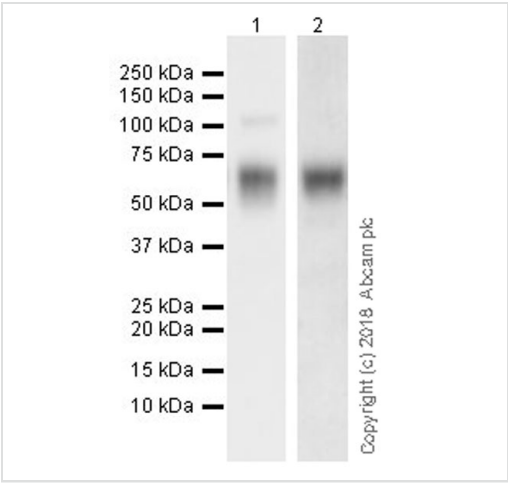


Immunoprecipitation - Anti-ICOS Ligand/ICOSL antibody [EPR20786] (ab230946)

ICOS Ligand/ICOSL was immunoprecipitated from 0.35 mg JAR (human placenta choriocarcinoma cell line) whole cell lysate with ab230946 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab230946 at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/1000 dilution.

Lane 1: JAR (human placenta choriocarcinoma cell line) whole cell lysate 10 µg (Input).
Lane 2: ab230946 IP in JAR whole cell lysate (+).
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab230946 in JAR whole cell lysate (-).

Blocking/Dilution buffer and concentration: 5% NFDM/TBST.
Exposure time: 10 seconds.



Western blot - Anti-ICOS Ligand/ICOSL antibody [EPR20786] (ab230946)

All lanes : Anti-ICOS Ligand/ICOSL antibody [EPR20786] (ab230946) at 1/1000 dilution

Lane 1 : HuT-78 (human Sezary syndrome cutaneous T lymphocyte) whole cell lysate
Lane 2 : JAR (human placenta choriocarcinoma cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 33 kDa
Observed band size: 60 kDa why is the actual band size different from the predicted?

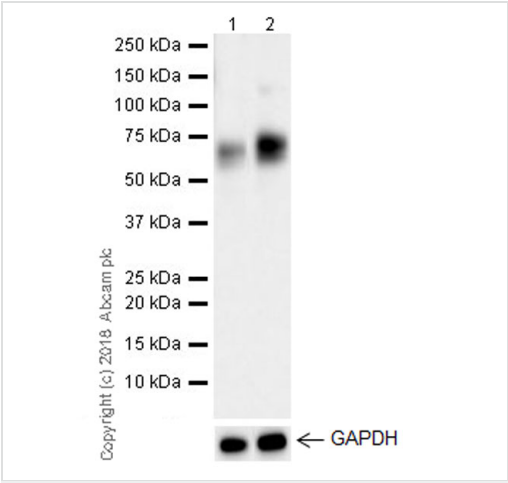
Blocking and diluting buffer: 5% NFDM/TBST.

Exposure times:

Lane 1: 15 seconds.

Lane 2: 84 seconds.

ICOS ligand/ICOSL is highly glycosylated (PMID11983910).



Western blot - Anti-ICOS Ligand/ICOSL antibody [EPR20786] (ab230946)

All lanes : Anti-ICOS Ligand/ICOSL antibody [EPR20786] (ab230946) at 1/1000 dilution

Lane 1 : Untreated HUVEC (human umbilical vein endothelial cell line) whole cell lysate
Lane 2 : HUVEC whole cell lysate treated with tumor necrosis factor (TNF-alpha, ab9642) 200 unit/ml for 24 hours

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

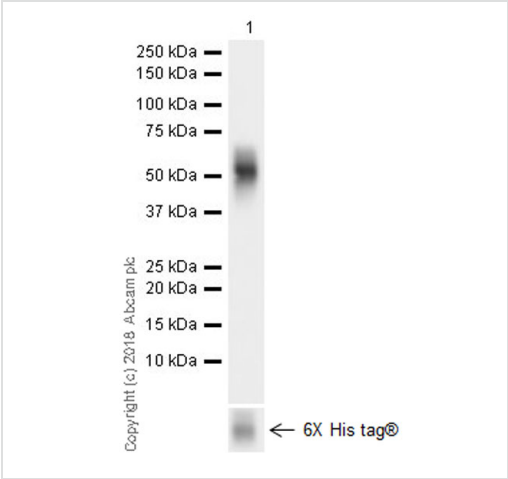
Predicted band size: 33 kDa
Observed band size: 60 kDa why is the actual band size different

from the predicted?

Blocking and diluting buffer: 5% NFDM/TBST.

Exposure time: 58 seconds.

The level of ICOS Ligand/ICOSL expression can be elevated by TNF-alpha treatment (PMID 11983910,PMID16049332).



Western blot - Anti-ICOS Ligand/ICOSL antibody [EPR20786] (ab230946)

Anti-ICOS Ligand/ICOSL antibody [EPR20786] (ab230946) at 1/1000 dilution + His-tagged recombinant human ICOS ligand/ICOSL protein (aa19-258) at 0.01 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 33 kDa

Observed band size: 55 kDa why is the actual band size different from the predicted?

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure time: 15 seconds.

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

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