abcam

ab170918

Anti-SLAP2 antibody [EPR8083(2)]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR8083(2)
Purification technique	Affinity purification Protein A
Concentration	1.758 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/10 - 1/100
Notes	-

IHC

Not recommended

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000 - 1/5000
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/100 - 1/250
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/100 - 1/500
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Target data

See full target information SLA2

Function	Adapter protein, which negatively regulates T-cell receptor (TCR) signaling. Inhibits T-cell antigen-receptor induced activation of nuclear factor of activated T-cells. May act by linking signaling proteins such as ZAP70 with CBL, leading to a CBL dependent degradation of signaling proteins.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Species reactivity
Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
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 batch production

For more information, read more on recombinant antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Src-like adapter protein 2 (SLAP2) also known as SLAP2 functions as an adaptor protein involved in signal transduction. It mediates interactions between

	membrane receptors and intracellular signaling components. SLAP2 is a protein of approximately 32 kDa and expression levels vary across different tissues including high expression in immune cells such as lymphocytes and macrophages. The protein has SH2 and SH3 domains which allow it to bind to phosphorylated tyrosines on its target proteins facilitating their degradation or modification.
Biological function summary	SLAP2 has a major role in regulating the immune response. By forming complexes with the components of the signal transduction machinery SLAP2 modulates the activity of key receptors such as the T-cell receptor (TCR) and B-cell receptor (BCR). These interactions influence cellular responses such as proliferation differentiation and apoptosis. Through its action SLAP2 acts as a negative regulator preventing overactivation of immune responses and maintaining homeostasis.
Pathways	Studies have shown that SLAP2 participates in both the T-cell receptor signaling pathway and the B-cell receptor signaling pathway. In these pathways SLAP2 interacts with kinases associated with these receptors such as Lck and Fyn influencing downstream signaling events. SLAP2 can inhibit excessive activation of these pathways by promoting the degradation of key signaling molecules ensuring that cells respond appropriately to external signals during immune activation.
Associated diseases and disorders	SLAP2 has been linked to certain types of cancer and autoimmune diseases. For example alterations in SLAP2 expression or function may contribute to lymphomas where disrupted signaling processes lead to uncontrolled cell growth. In autoimmune diseases aberrant SLAP2 activity could result in improper immune cell activation potentially linked to proteins like ZAP-70 which are also involved in disease modulation. Understanding SLAP2's regulation and interaction with signaling proteins could offer insights for therapeutic interventions in these conditions.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

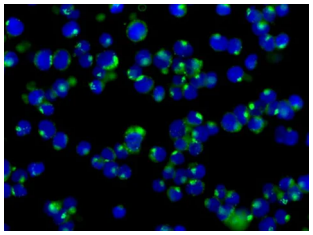
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

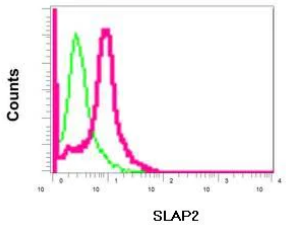
4 product images



Immunocytochemistry/ Immunofluorescence - Anti-SLAP2 antibody [EPR8083(2)] (ab170918)

SLAP2 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-SLAP2 antibody

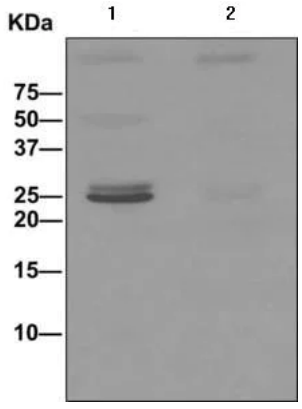
Immunofluorescent analysis of Jurkat cells labeling SLAP2 with ab170918 at 1/100 (green). DAPI nuclear staining (blue).



Flow Cytometry (Intracellular) - Anti-SLAP2 antibody [EPR8083(2)] (ab170918)

SLAP2 Flow Cytometry (Intracellular) staining using rabbit Anti-SLAP2 antibody

Intracellular flow cytometric analysis of permeabilized Jurkat cells labeling SLAP2 with ab170918 at 1/100 (red) or a rabbit IgG (negative) (green).



Immunoprecipitation - Anti-SLAP2 antibody [EPR8083(2)] (ab170918)

All lanes:
Immunoprecipitation - Anti-SLAP2 antibody [EPR8083(2)] (ab170918) at 1/1000 dilution

Lane 1:
Immunoprecipitation pellet from Jurkat cell lysate using ab170918 at 1/10

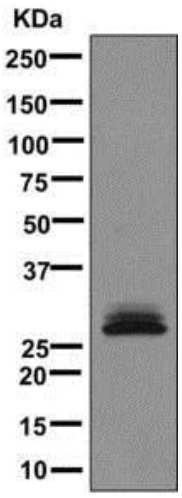
Lane 2:
Immunoprecipitation pellet from 1X PBS using ab170918 at 1/10 (negative control)

Secondary

All lanes:
HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG

Developed using the ECL technique.

Predicted band size: 29 kDa



Western blot - Anti-SLAP2 antibody [EPR8083(2)] (ab170918)

SLAP2 Western blot staining of Jurkat cell lysate using rabbit Anti-SLAP2 antibody

All lanes:
Western blot - Anti-SLAP2 antibody [EPR8083(2)] (ab170918) at 1/1000 dilution

All lanes:
Jurkat cell lysate at 10 µg

Secondary

All lanes:
Goat anti-rabbit HRP conjugated antibody at 1/2000 dilution

Developed using the ECL technique.

Predicted band size: 29 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.