abcam

ab249562

Anti-SKAP55 antibody [EPR11360] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR11360
Purification technique	Affinity purification
Concentration	1.042 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Tested

Species	Human
Dilution info	-

Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

IP

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information SKAP1

Function	Positively regulates T-cell receptor signaling by enhancing the MAP kinase pathway. Required for optimal conjugation between T-cells and antigen-presenting cells by promoting the clustering of integrin ITGAL on the surface of T-cells. May be involved in high affinity immunoglobulin epsilon receptor signaling in mast cells.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab249562 is the carrier-free version of ab170882.

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.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. 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.

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.

Compatibility
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.

Supplementary info

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

Activity summary	SKAP55 also known as Src kinase-associated phosphoprotein 55 is a protein with a mass of approximately 55 kDa. It plays an important role in T-cell signaling. This protein mainly expresses in lymphoid tissues including the thymus spleen and peripheral blood lymphocytes. SKAP55 interacts with signaling molecules via its SH3 domain facilitating cellular communication and activation.
Biological function summary	The protein functions as an adapter molecule in T-cell receptor (TCR) signaling pathways. SKAP55 associates with the LAT-Gads complex contributing to intracellular signal transduction. It helps mediate actin cytoskeletal rearrangements necessary for immune synapse formation. These rearrangements are critical for effective immune response meaning SKAP55 is integral to T-cell activation and function.
Pathways	SKAP55 participates in the signaling events downstream of the TCR particularly in the PI3K and Ras-MEK-ERK pathways. It works closely with proteins like LCK and ZAP70 which are essential for the phosphorylation processes involved in T-cell activation. Through these interactions SKAP55 influences the organization of signaling assemblies promoting effective cellular responses.
Associated diseases and disorders	SKAP55 relates to immune system-related conditions like autoimmune diseases and immunodeficiencies. Alterations in SKAP55 expression or function can affect T-cell signaling potentially leading to improper immune responses. SKAP55 interactions with LCK can influence diseases such as systemic lupus erythematosus where immune regulation is disrupted highlighting its importance in maintaining immune system balance.

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

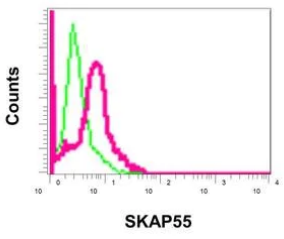
We do not recommend this combination. It is not covered by our product promise.

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.

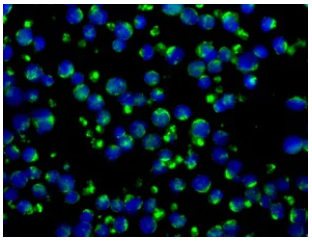
3 product images



Flow Cytometry (Intracellular) - Anti-SKAP55 antibody [EPR11360] - BSA and Azide free (ab249562)

SKAP55 Flow Cytometry (Intracellular) staining using rabbit Anti-SKAP55 antibody

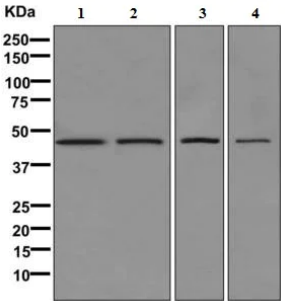
This data was developed using ab170882, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of permeabilized Jurkat cells labeling SKAP55 using ab170882 at a 1/10 dilution (red) or a rabbit IgG (green).



Immunocytochemistry/ Immunofluorescence - Anti-SKAP55 antibody [EPR11360] - BSA and Azide free (ab249562)

SKAP55 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-SKAP55 antibody

This data was developed using ab170882, the same antibody clone in a different buffer formulation.
Immunofluorescent staining of Jurkat cells labeling SKAP55 using ab170882 at a 1/100 dilution (green) and DAPI nuclear staining (blue).



Western blot - Anti-SKAP55 antibody [EPR11360] - BSA and Azide free (ab249562)

This data was developed using ab170882, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-SKAP55 antibody [EPR11360] (ab170882) at 1/1000 dilution

Lane 1:
Human thymus lysate at 10 µg

Lane 2:
Jurkat lysate at 10 µg

Lane 3:
HuT-78 lysate at 10 µg

Lane 4:
MOLT4 lysate at 10 µg

Secondary

All lanes:
HRP labeled goat anti-rabbit IgG at 1/2000 dilution

Predicted band size: 41 kDa

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