abcam

ab215432

Anti-Tspan-9 antibody

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.4 Preservative: 0.02% Proclin 300 Constituents: 50% Glycerol (glycerin, glycerine), 48.98% TBS, 1X, 1% BSA
Form	Liquid
Clonality	Polyclonal
Immunogen	Synthetic Peptide within Human TSPAN9 aa 150 to C-terminus conjugated to Keyhole Limpet Haemocyanin. The exact immunogen used to generate this antibody is proprietary information. Database link O75954
Purification technique	Affinity purification Protein A
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1/20 - 1/100
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Rat
Dilution info	-
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	1/100 - 1/500
Notes	-

Species	Human
Dilution info	1/100 - 1/500
Notes	-

Predicted

Species	Rat
Dilution info	-
Notes	-

Target data

See full target information TSPAN9

Storage

Shipped at conditions	Blue Ice

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

Supplementary info

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

Activity summary	Tspan-9 also known as Tetraspanin-9 is a protein involved in various cellular processes like cell adhesion proliferation and migration. This protein belongs to the tetraspanin superfamily characterized by four transmembrane domains. Tspan-9 has a molecular mass of approximately 26 kDa. Research shows that Tspan-9 is expressed in several tissues including the immune system's components such as leukocytes indicating its diverse role in immune functionality and cellular communication.
Biological function summary	Tspan-9 influences cell signaling pathways through interactions with other tetraspanins and membrane proteins. Tspan-9 associations with integrins facilitate the organization of signaling complexes that mediate cellular responses. It often forms complexes with proteins involved in maintaining the cell membrane's structural integrity. These interactions show its role in controlling cellular behavior relevant to growth and communication between cells.
Pathways	Tspan-9 plays a role in the regulation of integrin-mediated signaling and the PI3K/AKT signaling pathway. Tspan-9 interacts with proteins such as CD9 and integrins affecting pathways instrumental in cell survival and proliferation. These interactions contribute to cellular adhesion dynamics demonstrating Tspan-9's role in facilitating important cellular processes.
Associated diseases and disorders	Alterations in Tspan-9 expression have a connection to certain cancer types. Specifically Tspan-9 modulates processes in tumor development and metastasis. Its interactions with proteins like CD9 have implications in cancer pathology affecting tumor growth and invasive potential. Additionally abnormalities in Tspan-9 function or regulation may link to immunological disorders reflecting its role in immune system modulation.

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

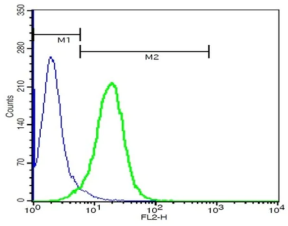
We do not recommend this combination. It is not covered by our product promise.

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.

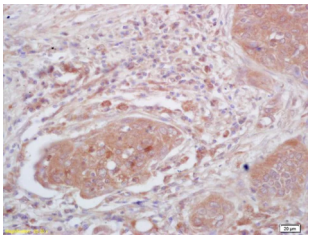
3 product images



Flow Cytometry - Anti-Tspan-9 antibody (ab215432)

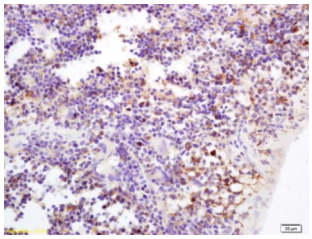
Tspan-9 Flow Cytometry staining using rabbit Anti-Tspan-9 antibody

Flow cytometric analysis of Human U937 cells labeling Tspan-9 with ab215432 at 1/100 dilution for 40 minutes, followed by incubation with Goat Anti-Rabbit IgG PE conjugated secondary antibody for 40 minutes (green), compared to control cells (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Tspan-9 antibody (ab215432)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human lung carcinoma tissue labeling Tspan-9 with ab215432 at 1/200 dilution, followed by conjugation to the secondary antibody and DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Tspan-9 antibody (ab215432)

Tspan-9 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Tspan-9 antibody

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Mouse spleen tissue labeling Tspan-9 with ab215432 at 1/200 dilution, followed by conjugation to the secondary antibody and DAB staining.

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