abcam

ab81717

Anti-CD96 antibody [NK92.39]

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	Constituents: PBS, 0.1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing CD96 protein. The exact immunogen used to generate this antibody is proprietary information. Database link P40200
Clone number	NK92.39
Purification technique	Affinity purification Protein G
Concentration	0.1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	ab81717 is 0.2µM filtered.

Reactivity data

FuncS (Neut/Block)

Expected

Species	Human
Dilution info	-
Notes	ab81717 blocks binding of soluble poliovirus receptor (PVR) to NK92 cells.

Flow Cyt

Expected

Species	Human
Dilution info	1/50
Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody. Use at a starting dilution of 1/50. Optimal dilutions will depend on the detection system used.

Target data

See full target information CD96

Function	May be involved in adhesive interactions of activated T and NK cells during the late phase of the immune response. Promotes NK cell-target adhesion by interacting with PVR present on target cells. May function at a time after T and NK cells have penetrated the endothelium using integrins and selectins, when they are actively engaging diseased cells and moving within areas of inflammation.

Storage

Shipped at conditions	Blue Ice
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	CD96 also known as TACTILE is an immunoglobulin-like protein weighing approximately 65 kDa. This protein is expressed mostly on T cells and natural killer (NK) cells with its presence also noted on certain leukemic cells. CD96 functions mechanistically as an adhesion molecule mediating interaction between cells significantly involving in immune response modulation. Through binding proteins

	like CD155 it regulates immune cell migration and activity playing a significant role in cellular communication within the immune system.
Biological function summary	The CD96 protein contributes to the immune synapse formation by interacting with other cell surface and intracellular proteins. It is not directly part of a multiprotein complex but closely interacts with the receptor-ligand pairs within immune cell networks. It plays a role in the control of NK cell activity and helps maintain immune homeostasis by balancing activation and inhibition cues.
Pathways	The CD96 protein significantly impacts immunological pathways particularly those involving T cell and NK cell activation. It connects with pathways such as the DNAM-1 (CD226) and CD155 axis influencing immune cell recognition and response. These pathways regulate cellular activities like cytotoxicity and cytokine production where CD96 collaborates with proteins like DNAM-1 and TIGIT to fine-tune immune responses.
Associated diseases and disorders	CD96 is closely associated with cancer and autoimmune diseases. Its expression level and functional role in cell adhesion and immune response modulation affect tumor immune evasion and surveillance often serving as a potential therapeutic target in cancer immunotherapy. Moreover its interactions with CD155 and DNAM-1 suggest its involvement in autoimmune conditions where regulation of immune cell activity becomes dysregulated pointing towards its relevance in diseases like rheumatoid arthritis.

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.

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