abcam

ab33273

Anti-CD57 antibody [TB01]

Key facts

Isotype	IgM
Host species	Mouse
Storage buffer	pH: 7.4 Preservative: 0.09% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing CD57 protein. The exact immunogen used to generate this antibody is proprietary information.
Clone number	TB01
Purification technique	Ion exchange chromatography
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Expected

Species	Human
Dilution info	1/50 - 1/100
Notes	ab91545 - Mouse monoclonal IgM, is suitable for use as an isotype control with this antibody. Use 10µl of the suggested working dilution to label 10^6 cells in 100µl.

IHC-P

Expected

Species	Human
Dilution info	1/10 - 1/50
Notes	This product does not require protein digestion pre-treatment of paraffin sections. This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections but sodium citrate buffer may enhance staining.

IHC-Fr

Expected

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

IP

Not recommended

Species	Human
Dilution info	-
Notes	-

WB

Not recommended

Species	Human
Dilution info	-
Notes	-

Target data

See full target information CD57

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	CD57 also known as HNK-1 is a glycoprotein with a molecular weight of approximately 110 to 150 kDa. It is a marker expressed on the surface of natural killer (NK) cells T lymphocytes and some subsets of CD8+ T cells. Besides you can find this marker in neural tissue. As a surface marker CD57 is used in human immunohistochemistry (IHC) studies to identify cell populations in immune responses and has significant utility in the characterization of lymphocyte subsets.
Biological function summary	CD57 plays a role in immune regulation and cell-mediated cytotoxicity. CD57+ cells which are often mature or post-activation states in NK cells and T lymphocytes are less proliferative but have enhanced cytotoxic abilities. These cells contribute to the immune surveillance against viral infections and tumor cells. CD57 does not belong to any well-known protein complexes but can cooperate with other surface markers to modulate immune functions.
Pathways	CD57+ cell populations participate in the immune system pathways related to cell-mediated immunity and cytotoxic response. The presence of CD57 is often associated with the downregulation of proliferative pathways and the enhancement of cytotoxic pathways. It shows functional overlap with proteins such as CD16 and NKG2D which also play roles in mediating the cytotoxic activity of NK cells.
Associated diseases and disorders	CD57 is connected to chronic infections and certain autoimmune conditions. In chronic viral infections like HIV CD57+ T cells show a state of replicative senescence where their persistent expression links to disease progression. In autoimmune disorders like rheumatoid arthritis CD57+ T cells are found in the inflamed tissues. This protein works alongside CD8 in conditions of immune dysfunction providing insights into immune status and disease activity.

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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