abcam

ab275622

PE Anti-Nectin 2 antibody [005]

Recombinant

Key facts

Isotype	IgG
Host species	Rabbit
Conjugation	PE
Excitation/Emission	Ex: 480;565nm, Em: 578nm
Storage buffer	Preservative: 0.03% Proclin 300 Constituents: 0.5% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Fragment Protein within Human NECTIN2 aa 1-400. The exact immunogen used to generate this antibody is proprietary information. Database link Q92692
Clone number	005
Purification technique	Affinity purification Protein A
Concentration	0.1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human

Dilution info	-
Notes	10 µL/Test

Target data

See full target information NECTIN2

Function	Modulator of T-cell signaling. Can be either a costimulator of T-cell function, or a coinhibitor, depending on the receptor it binds to. Upon binding to CD226, stimulates T-cell proliferation and cytokine production, including that of IL2, IL5, IL10, IL13, and IFNG. Upon interaction with PVRIG, inhibits T-cell proliferation. These interactions are competitive (PubMed:26755705). Probable cell adhesion protein (PubMed:9657005). (Microbial infection) Acts as a receptor for herpes simplex virus 1 (HHV-1) mutant Rid1, herpes simplex virus 1 (HHV-2) and pseudorabies virus (PRV).

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, Store in the dark

Supplementary info

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

Activity summary	Nectin 2 also known as CD112 is a transmembrane cell adhesion molecule belonging to the immunoglobulin superfamily. It plays a critical role in mediating cell-cell adhesion by forming homophilic and heterophilic interactions with other nectins. The protein has a mass of approximately 65 kDa and shows high expression in epithelial and endothelial cells. Nectin 2 has been identified in various tissues including the skin lung and kidney reflecting its importance in maintaining tissue integrity.
Biological function summary	Nectin 2 facilitates cell adhesion and communication playing an important role in the formation of adherens junctions. It serves as part of a larger biological complex with proteins such as afadin linking it to the actin cytoskeleton. Through these interactions Nectin 2 influences the signaling pathways that regulate tissue development and maintenance. Its ability to bind herpes virus entry mediator A (HVEM) further demonstrates its function in viral entry highlighting its diverse biological roles.

Pathways	Nectin 2 participates in the cell adhesion and immune response pathways. It works closely with Nectin 1 and Cadherins within these pathways to mediate cell-cell junction formation and signaling. The interaction of Nectin 2 with intracellular proteins like afadin facilitates its role in the immunological synapse a critical zone for immune cell signaling. These pathways highlight its significance in both maintaining cellular architecture and modulating immune responses.
Associated diseases and disorders	Nectin 2 relates to cancer and viral infections. Its altered expression or dysfunction has links with tumor progression and metastasis particularly in epithelial-origin cancers like colorectal cancer. Through its role as a herpesvirus entry receptor it also connects to herpes simplex virus (HSV) infections. The interactions between Nectin 2 and other nectins such as Nectin 3 may affect cell proliferation and viral entry expanding the understanding of its involvement in disease mechanisms.

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

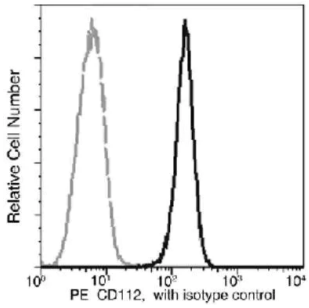
We do not recommend this combination. It is not covered by our product promise.

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.

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Terms & Conditions.

1 product image



Flow Cytometry - PE Anti-Nectin 2 antibody [005] (ab275622)

Nectin 2 Flow Cytometry staining using rabbit Anti-Nectin 2 antibody

Flow cytometric analysis of A549 (human lung carcinoma cell line) cells labeling Nectin-2 with ab275622 (Black) compared with isotype control (Grey).

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