abcam

ab47171

Anti-Nectin 2 antibody [B-C12] - BSA and Azide free

Key facts

Isotype	IgG2b
Host species	Mouse
Storage buffer	pH: 7.3 - 7.5 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing NECTIN2 protein. The exact immunogen used to generate this antibody is proprietary information. Database link Q92692
Carrier free	Yes
Clone number	B-C12
Purity	Tissue culture supernatant
Light chain type	kappa

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	ab170192 - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.

ICC/IF

Tested

Species	Human
Dilution info	1-10 µg/mL
Notes	-

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 duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

This product was changed from ascites to tissue culture supernatant on 4th April 2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.

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

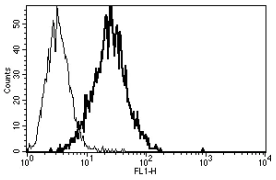
We do not recommend this combination. It is not covered by our product promise.

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.

Full details and terms and conditions can be found here:
Terms & Conditions.

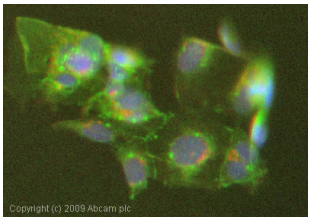
2 product images



Flow Cytometry - Anti-Nectin 2 antibody [B-C12] - BSA and Azide free (ab47171)

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

A typical staining pattern with ab47171 monoclonal antibody of KG-1 cell line.
This image was generated using the ascites version of the product.



Immunocytochemistry/ Immunofluorescence - Anti-Nectin 2 antibody [B-C12] - BSA and Azide free (ab47171)

Nectin 2 Immunocytochemistry/ Immunofluorescence staining using mouse Anti-Nectin 2 antibody

ICC/IF image of ab47171 stained Hek293 cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab47171, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM. This image was generated using the ascites version of the product.

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