Revision 4

Store at -20C

#95333

Nectin-2/CD112 (D8D3F) XP® Rabbit mAb

Cell Signaling TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IHC-P	H Mk	Endogenous	70-80	Rabbit IgG	#Q92692	5819

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunohistochemistry (Paraffin)	1:100 - 1:400

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #51172.

Specificity/Sensitivity

Nectin-2/CD112 (D8D3F) XP® Rabbit mAb recognizes endogenous levels of total Nectin-2/CD112 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human Nectin-2/CD112 protein.

Background

Nectin-2, also known as CD112 and poliovirus receptor-related 2 (PVRL2), is a single-pass type I membrane glycoprotein ubiquitously expressed on various human tissues (1). It is a calcium independent cell adhesion molecule known to interact with several cell surface receptors, including DNAM-1 (CD226), LFA-1 (CD11a), Nectin-3 (CD113), TIGIT (VSTM3), and PVRIG (CD112R) (2-7). It is one of the major constituents of adherens junctions, and therefore plays a central role in a number of cellular processes, including adhesion, migration, and proliferation (2-8). Within the immune system, Nectin-2 modulates immune cell signaling. Upon interaction with DNAM-1 expressed on T and NK cells, Nectin-2 stimulates proliferation and cytokine production (4). Upon interaction with PVRIG, Nectin-2 inhibits proliferation (7). Thus, Nectin-2 can be either a co-stimulator or a co-inhibitor of immune cell function depending on competitive receptor interactions. Nectin-2 also serves as an entry for certain mutant strains of herpes simplex virus and pseudorabies virus, and it is involved in cell to cell spreading of these viruses (8,9). Alternate transcriptional splice variants, encoding different isoforms, have been characterized (10-12).

Background References

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4. Bottino, C. et al. (2003) *J Exp Med* 198, 557-67.
5. Reymond, N. et al. (2004) *J Exp Med* 199, 1331-41.
6. Deuss, F.A. et al. (2017) *J Biol Chem* 292, 11413-22.
7. Zhu, Y. et al. (2016) *J Exp Med* 213, 167-76.
8. Devilard, E. et al. (2013) *PLoS One* 8, e77424.
9. Martinez, W.M. and Spear, P.G. (2001) *J Virol* 75, 11185-95.
10. Warner, M.S. et al. (1998) *Virology* 246, 179-89.
11. Ota, T. et al. (2004) *Nat Genet* 36, 40-5.
12. Gerhard, D.S. et al. (2004) *Genome Res* 14, 2121-7.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human **Mk:** Monkey

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