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#66631**DNAM-1/CD226 (E8L9G) XP[®] Rabbit mAb**

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

Applications: W, IHC-Bond, IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 70	Source/Isotype: Rabbit IgG	UniProt ID: #Q15762	Entrez-Gene Id: 10666
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Product Usage Information**Application**

Western Blotting
IHC Leica Bond
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:50 - 1:200
1:50 - 1:200

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 #66991.

Specificity/Sensitivity

DNAM-1/CD226 (E8L9G) XP[®] Rabbit mAb recognizes endogenous levels of total DNAM-1/CD226 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human DNAM-1/CD226 protein.

Background

DNAM-1/CD226 is a member of the immunoglobulin-like superfamily. It is expressed on T cells, natural killer (NK) cells, monocytes, and macrophages. It is a major activating receptor on NK cells. Engagement with its ligands Nectin-2 (CD112) and PVR (poliovirus receptor, also known as CD155) on the target cells leads to downstream activation of ERK, AKT, and PLCg2 signaling pathways that are crucial for NK activation and NK-mediated killing (1-4). LFA-1 physically associates with DNAM-1/CD226 and contributes to its signaling (5). Activating signal of DNAM-1/CD226 is counterbalanced by inhibitory receptors TIGIT and CD96, competing for the common ligands CD122 and PVR (6,7).

Background References

- Elishmereni, M. et al. (2008) *Curr Opin Investig Drugs* 9, 491-6.
- Xiong, P. et al. (2015) *Immunology* 146, 369-78.
- de Andrade, L.F. et al. (2014) *Immunol Cell Biol* 92, 237-44.
- Cifaldi, L. et al. (2019) *Int J Mol Sci* 20, pii: E3715. doi: 10.3390/ijms20153715.
- Shibuya, K. et al. (2003) *J Exp Med* 198, 1829-39.
- Stein, N. et al. (2017) *Hum Antibodies* 25, 111-9.
- Sanchez-Correa, B. et al. (2019) *Cancers (Basel)* 11, pii: E877. doi: 10.3390/cancers11060877.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

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

Cross-Reactivity Key

H: Human

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