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#29499**CD48 (D7L8I) XP[®] Rabbit mAb**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IHC-Bond, IHC-P	H	Endogenous	45-50	Rabbit IgG	#P09326	962

Product Usage Information**Application**

Western Blotting
IHC Leica Bond
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:200
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 #90615.

Specificity/Sensitivity

CD48 (D7L8I) XP[®] Rabbit mAb recognizes endogenous levels of total CD48 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human CD48 protein.

Background

CD48 is a glycosylphosphatidylinositol (GPI) -anchored membrane protein of the signaling lymphocyte activation molecule (SLAM) family, also known as SLAMF2 and BLAST-1. It is constitutively expressed on most hematopoietic cells (not on neutrophils and a subset of long-term hematopoietic stem cells in mice) and can be upregulated under certain conditions like infection (1). Interaction with its low affinity ligand CD2 promotes adhesion and TCR signaling (2,3). Interaction with the high affinity ligand CD244 (2B4) regulates natural killer (NK) and CD8 T cell activation and cytolytic function (4-6).

Background References

- McArdel, S.L. et al. (2016) *Clin Immunol* 164, 10-20.
- Moran, M. and Miceli, M.C. (1998) *Immunity* 9, 787-96.
- Muhammad, A. et al. (2009) *J Immunol* 182, 7672-80.
- Assarsson, E. et al. (2005) *Mol Immunol* 42, 419-23.
- Assarsson, E. et al. (2005) *J Immunol* 175, 2045-9.
- Elishmereni, M. and Levi-Schaffer, F. (2011) *Int J Biochem Cell Biol* 43, 25-8.

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-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human

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