

2B4/SLAMF4/CD244 (D5J9D) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M	Endogenous	70-120	Rabbit IgG	#Q9BZW8	51744

Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

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.*

Specificity/Sensitivity

2B4/SLAMF4/CD244 (D5J9D) Rabbit mAb recognizes endogenous levels of total 2B4/SLAMF4/CD244 protein. This antibody cross-reacts with an unidentified protein of 18 kDa in some cell extracts.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp367 of human 2B4/SLAMF4/CD244 protein.

Background

2B4, also known as signaling lymphocytic activation molecule family member 4 (SLAMF4) and cluster of differentiation 244 (CD244), is a heterophilic cell surface receptor expressed on a variety of immune cells, including natural killer (NK) cells, T cells, eosinophils, mast cells, and dendritic cells. 2B4 has been shown to have both immune stimulatory and inhibitory effects on cells (1-11). Upon engagement of its ligand CD48, 2B4 can enhance immune cell signaling, cytokine production, non-major histocompatibility complex-restricted cytotoxicity, and cell migration (1-8). Conversely, at early stages of NK cell differentiation, 2B4 may function as an inhibitory receptor possibly ensuring the self-tolerance of developing NK cells (10). 2B4 also inhibits inflammatory responses in dendritic cells (11). Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Background References

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3. Valiante, N.M. and Trinchieri, G. (1993) *J Exp Med* 178, 1397-406.
4. Munitz, A. et al. (2005) *J Immunol* 174, 110-8.
5. Sivori, S. et al. (2000) *Eur J Immunol* 30, 787-93.
6. El-Shazly, A.E. et al. *Int J Immunopathol Pharmacol* 24, 949-60.
7. Chen, L. and Flies, D.B. (2013) *Nat Rev Immunol* 13, 227-42.
8. Assarsson, E. et al. (2005) *Mol Immunol* 42, 419-23.
9. Elishmereni, M. et al. (2014) *J Invest Dermatol* 134, 2928-37.
10. Sivori, S. et al. (2002) *Proc Natl Acad Sci U S A* 99, 4526-31.
11. Georgoudaki, A.M. et al. (2015) *Immunol Cell Biol* 93, 581-90.

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 **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse

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