

Integrin β 2 Antibody



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	M	Endogenous	95	Rabbit	#P11835	16414

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at -20°C. *Do not aliquot the antibody.*

Specificity/Sensitivity

Integrin β 2 Antibody recognizes endogenous levels of total mouse Integrin β 2 protein. This antibody does not cross-react with human Integrin β 2.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser84 of mouse Integrin β 2 protein. Antibodies are purified by peptide affinity chromatography.

Background

Integrins are transmembrane glycoproteins that form heterodimers consisting of one α and one β subunit. Integrin dimers act as receptors for extracellular matrix proteins and cell-surface ligands. Integrin signaling to (inside-out) and from (outside-in) extracellular molecules regulates multiple cellular processes, such as development, wound healing, immune response, invasion, metastasis, and angiogenesis (1,2). Integrin β 2 (CD18) is the β subunit of the leukocyte-specific integrin family. Leukocyte integrins include Integrin β 2 (CD18)/ α L (CD11a) (LFA-1, lymphocyte function associated antigen 1), Integrin β 2 (CD18)/ α M (CD11b) (Mac-1), Integrin β 2 (CD18)/ α X (CD11c), and Integrin β 2 (CD18)/ α D (CD11d). These integrins bind to immunoglobulin superfamily members, such as ICAM-1 and VCAM-1 on endothelial cells, to mediate firm adhesion and transendothelial migration of leukocytes (3). Integrin β 2 (CD18) deficiency results in LAD (leukocyte adhesion deficiency), a disease characterized by impairment of leukocyte recruitment, resulting in an inability to fight infection (4).

Background References

1. Calderwood, D.A. et al. (2000) *J Biol Chem* 275, 22607-10.
2. ffrench-Constant, C. and Colognato, H. (2004) *Trends Cell Biol* 14, 678-86.
3. Zen, K. and Parkos, C.A. (2003) *Curr Opin Cell Biol* 15, 557-64.
4. Schmidt, S. et al. (2013) *Mol Immunol* 55, 49-58.

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

Cross-Reactivity Key

M: Mouse

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