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Integrin β2 (D4N5Z) Rabbit mAb



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| Product Usage Information | Арр | | | | | | |
|------------------------------|--|--|--|--|----------|--|--|
| Information | | Application | | | Dilution | | |
| | Wes | stern Blotting | | | 1:1000 | | |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody. | | | | | |
| Specificity / Sensitivit | rity Integrin β2 (D4N5Z) Rabbit mAb recognizes endogenous levels of total Integrin β2 protein. | | | | | | |
| Source / Purification | | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu49 of human Integrin $\beta 2$ protein. | | | | | |
| Background | Integ to (ir deve (CD2 (CD2 (Mac immi adhe (leuk | 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 inability to fight infection (4). | | | | | |

Background References

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

Applications Key

WB: Western Blotting

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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