

Integrin β 4 (D8P6C) XP[®] Rabbit mAb

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

Applications: W, IHC-P, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 210	Source/Isotype: Rabbit IgG	UniProt ID: #P16144	Entrez-Gene Id: 3691
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Product Usage Information**Application**

Western Blotting
Immunohistochemistry (Paraffin)
Flow Cytometry (Fixed/Permeabilized)

Dilution

1:1000
1:200
1:100

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.

For a carrier free (BSA and azide free) version of this product see product #26390.

Specificity/Sensitivity

Integrin β 4 (D8P6C) XP[®] Rabbit mAb recognizes endogenous levels of total integrin β 4 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human integrin β 4 protein.

Background

Integrins are α/β heterodimeric cell surface receptors that play a pivotal role in cell adhesion and migration, as well as in growth and survival (1,2). The integrin family contains at least 18 α and 8 β subunits that form 24 known integrins with distinct tissue distribution and overlapping ligand specificities (3). Integrins not only transmit signals to cells in response to the extracellular environment (outside-in signaling), but also sense intracellular cues to alter their interaction with extracellular environment (inside-out signaling) (1,2). Integrin β 4 pairs with integrin α 6 on the cell surface membrane to form the integrin α 6 β 4 heterodimer, an important laminin receptor that is essential for hemidesmosome formation and the support of stable adhesions between basal epithelial cells and the basement membrane (4,5). Integrin β 4 is an important component in several growth factor induced signaling pathways that are involved in tumorigenesis and invasive cell growth (6,7).

Background References

1. Liu, S. et al. (2000) *J Cell Sci* 113 (Pt 20), 3563-71.
2. Hood, J.D. and Cheresch, D.A. (2002) *Nat Rev Cancer* 2, 91-100.
3. van der Flier, A. and Sonnenberg, A. (2001) *Cell Tissue Res* 305, 285-98.
4. Schaapveld, R.Q. et al. (1998) *J Cell Biol* 142, 271-84.
5. Litjens, S.H. et al. (2006) *Trends Cell Biol* 16, 376-83.
6. Guo, W. et al. (2006) *Cell* 126, 489-502.
7. Bertotti, A. et al. (2006) *J Cell Biol* 175, 993-1003.

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-P:** Immunohistochemistry (Paraffin) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human

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