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Product datasheet for SM1205P

Integrin beta 4 (ITGB4) Mouse Monoclonal Antibody [Clone ID: 450-9D]

Product data:

Product Type:	Primary Antibodies
Clone Name:	450-9D
Applications:	FC, IHC, IP, WB
Recommended Dilution:	**Flow Cytometry:** Use 10 µl of 1/25-1/100 diluted antibody to label 10e6 cells in 100 µl. **Immunoprecipitation.** **Western blot.** **Immunohistochemistry on Frozen Sections.** (1/500-1/1000). Does not work on Paraffin Sections.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified alpha 6/beta 4 Integrin from A431 cells. Spleen cells from immunised BALB/c mice were fused with cells of the mouse Sp2/0 myeloma cell line.
Specificity:	This antibody reacts with beta 4 Integrin (CD104). This antibody recognises an extracellular epitope on the CD104 molecule.
Formulation:	PBS, pH 7.4, containing 0.09% Sodium Azide as preservative. State: Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	integrin subunit beta 4

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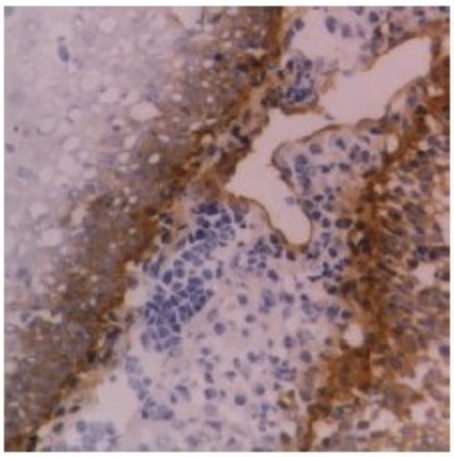
Database Link: Entrez Gene 3691 Human
P16144

Background: Integrin beta 4 is a glycoprotein which associates with the a6 integrin to form the a6/b4 complex. Integrin alpha 6/beta 4 is a receptor for laminin. It plays a critical structural role in the hemidesmosome of epithelial cells. Defects in Integrin beta 4 gene are a cause of epidermolysis bullosa letalis with pyloric atresia (EB PA); also known as junctional epidermolysis bullosa with pyloric atresia (PA-JEB) or aplasia cutis congenita with gastrointestinal atresia. EB-PA is characterized by mucocutaneous fragility and gastrointestinal atresia, which most commonly affects the pylorus. Moreover, defects in Integrin beta 4 gene are a cause of generalized atrophic benign epidermolysis bullosa (GABEB). This nonlethal form of junctional epidermolysis bullosa is characterized by life long blistering of the skin, associated with hair and tooth abnormalities.
CD104 is expressed on epithelial cells, Schwann cells and some tumor cell lines.

Synonyms: ITGB4, GP150

Product images:



Cryostat section of human tonsil stained with anti-CD104 antibody.