

## Product datasheet for **AM50203PU-S**

### Integrin beta 4 (ITGB4) Mouse Monoclonal Antibody [Clone ID: UM-A9]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	UM-A9
Applications:	FC, IF, IHC, IP, WB
Recommended Dilution:	<b>Biological Blockade:</b> Partially blocks laminin binding (Use Azide free Antibody). <b>ELISA:</b> Use BSA free Antibody for coating. <b>Flow Cytometry:</b> 0.5-1 µg/million cells. <b>Immunofluorescence:</b> 0.5-1 µg/ml. <b>Western Blotting</b> (not tested): 0.5-1 µg/ml/million cells in 0.1 ml. <b>Immunoprecipitation</b> (not tested): 0.5-1 µg/500 µg protein lysate. <b>Immunohistochemistry on Frozen Sections</b> (not tested): 0.5-1 µg/ml for 30 minutes at RT. <b>Positive Control:</b> A431 cells, squamous cell carcinoma, colon or placenta.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Human squamous cell carcinoma (UM-SCC1).
Specificity:	Recognizes a protein of 205kDa, which is identified as integrin beta-4 (ITGB4). Its epitope is localized in the extracellular domain of ITGB4 protein. Integrins are heterodimers comprised of alpha and beta subunits, that are non-covalently associated transmembrane glycoprotein receptors. Different combinations of alpha and beta polypeptides form complexes that vary in their ligand-binding specificities. Integrins mediate cell-matrix or cell-cell adhesion, and transduced signals that regulate gene expression and cell growth. This gene encodes the integrin beta-4 subunit, a receptor for the laminins. This subunit tends to associate with alpha-6 subunit and is likely to play a pivotal role in the biology of invasive carcinoma. Mutations in this gene are associated with epidermolysis bullosa with pyloric atresia. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. <b>Cellular Localization:</b> Cell surface.



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<b>Formulation:</b>	10mM PBS State: Purified State: Liquid purified IgG fraction from Bioreactor Concentrate Stabilizer: 0.05% BSA Preservative: 0.05% Sodium Azide
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Protein A/G Chromatography
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store undiluted at 2-8°C.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Predicted Protein Size:</b>	205 kDa
<b>Gene Name:</b>	integrin subunit beta 4
<b>Database Link:</b>	<a href="#">Entrez Gene 3691 Human P16144</a>
<b>Synonyms:</b>	ITGB4, GP150