

# Product Datasheet

## Integrin beta 4/CD104 Antibody (UM-A9) NBP2-32813-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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### Publications: 1

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**NBP2-32813-0.1mg**

Integrin beta 4/CD104 Antibody (UM-A9)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	UM-A9
Preservative	0.05% Sodium Azide
Isotype	IgG2a Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Target Molecular Weight	205 kDa

Product Description	
Description	<p>200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA &amp; 0.05% azide. Also available WITHOUT BSA &amp; azide at 1.0 mg/ml. (NBP2-34507)</p> <p>Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.</p>
Host	Mouse
Gene ID	3691
Gene Symbol	ITGB4
Species	Human
Specificity/Sensitivity	<p>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.</p>
Immunogen	Human squamous cell carcinoma (UM-SCC1)

Product Application Details	
Applications	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Block/Neutralize
Recommended Dilutions	Flow Cytometry 1-2 ug/million cells, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Block/Neutralize
Application Notes	Biological Blockade: Partially Blocks laminin binding. Order Ab without Azide. Optimal dilution for a specific application should be determined.



## Publications

Kawai S, Nakano K, Tamai K et al. Generation of a lung squamous cell carcinoma three-dimensional culture model with keratinizing structures Scientific reports 2021-12-21 [PMID: 34934075]





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### **Products Related to NBP2-32813-0.1mg**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
NBP2-61461-10ug	Recombinant Human Integrin beta 4/CD104 His Protein

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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