

# Product Datasheet

## Integrin alpha 5 beta 1 Antibody (BMC5) NBP2-29788

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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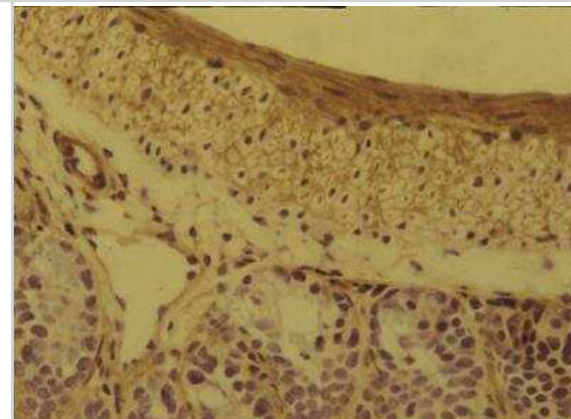
**NBP2-29788****Integrin alpha 5 beta 1 Antibody (BMC5)**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	This product is unpurified. The exact concentration of antibody is not quantifiable.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	BMC5
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG2b Kappa
<b>Purity</b>	Unpurified
<b>Buffer</b>	Ascites
<b>Product Description</b>	
<b>Description</b>	Relevant Entrez Gene Numbers: NM_002205.2
<b>Host</b>	Rat
<b>Gene ID</b>	3678
<b>Gene Symbol</b>	ITGA5
<b>Species</b>	Mouse
<b>Specificity/Sensitivity</b>	Antibody was raised against mouse integrin VLA-5 (alpha5beta1), a fibronectin receptor. The antibody was prepared by fusion of spleen cells from a Fisher rat immunized with mouse embryonal carcinoma P19 cells with myeloma P3X63Ag9.653 cells. Cell lines tested to express alpha5beta1, include: P19 cells, mouse melanoma B16F1 cells, mouse squamous carcinoma SCC cells and thymocytes.
<b>Immunogen</b>	Mouse embryonal carcinoma P19 cells with myeloma P3X63Ag9.653 cells.
<b>Notes</b>	Relevant Entrez Gene Numbers: NM_002205.2
<b>Product Application Details</b>	
<b>Applications</b>	Flow Cytometry, Functional, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Immunohistochemistry-Paraffin (Negative)
<b>Recommended Dilutions</b>	Flow Cytometry 10ul/ml, Immunohistochemistry 1:10-1:500, Immunoprecipitation 2 uL, Immunohistochemistry-Frozen 1:10-1:500, Functional 10ul/ml, Immunohistochemistry-Paraffin (Negative)
<b>Application Notes</b>	Inhibition of cell adhesion to fibronectin: 10 ul/mL Note that where cell adhesion to fibronectin involving other fibronectin receptors, such as VLA-4 (alpha4beta1) integrin, is involved, inhibition of cell adhesion by BMC5 alone may not be complete. Immunohistochemistry on acetone-fixed frozen sections only; formalin fixation is not recommended.



## Images

Immunohistochemistry: Integrin alpha 5 beta 1 Antibody (BMC5) [NBP2-29788] - Rat anti-Mouse Integrin alpha5beta1 staining of mouse gut.



## Publications

Lima E Silva R, Mirando AC, Tzeng SY et al. Anti-angiogenic collagen IV-derived peptide target engagement with  $\alpha 5 \beta 1$  and  $\alpha 6 \beta 1$  in ocular neovascularization models iScience 2023-02-17 [PMID: 36844452] (Immunocytochemistry/ Immunofluorescence)

Tang Y, Luo K, Tan J et al. Laminin alpha 4 promotes bone regeneration by facilitating cell adhesion and vascularization Acta biomaterialia 2021-03-09 [PMID: 33711525] (WB)

Smolders SM, Swinnen N, Kessels S et al. Age-specific function of alpha5B1 integrin in microglial migration during early colonization of the developing mouse cortex Glia. 2017-04-18 [PMID: 28417486] (IHC-Fr, Mouse)



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### **Products Related to NBP2-29788**

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HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
NBP1-75398	Goat anti-Rat IgG (H+L) Secondary Antibody (Pre-adsorbed)
NBP1-43323-0.5mg	Rat IgG2b Kappa Light Chain Isotype Control (149/10H5)
210-TA-005	TNF-alpha [Unconjugated]

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### **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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