CD13 / Aminopeptidase-N (Myeloid Cell Marker) Antibody

Mouse Monoclonal Antibody [Clone APN/6998]

Catalog No	Format	Size
290-MSM8-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
290-MSM8-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
290-MSM8-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

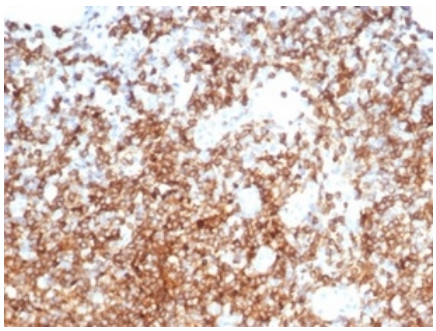
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

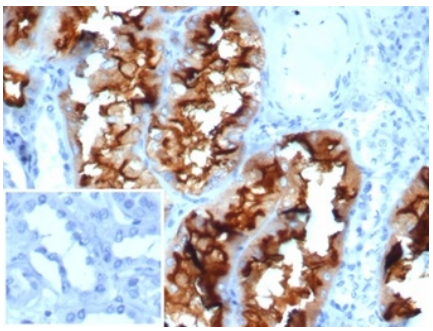
Clone	APN/6998
Gene Name	ANPEP
Immunogen	Recombinant fragment (around aa50-250) of human ANPEP protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	150kDa
Cellular Localization	Cell membrane
Species Reactivity	Human
Positive Control	Macrophages in a lymph node or tonsil.

**Optimal dilution for a specific application should be determined.*

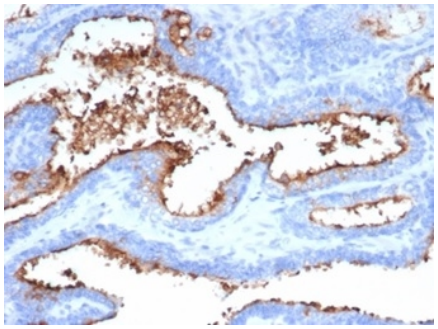
Product Images for CD13 / Aminopeptidase-N (Myeloid Cell Marker) Antibody



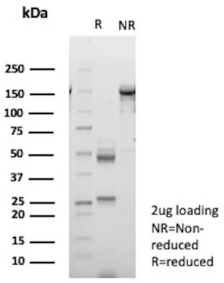
Formalin-fixed, paraffin-embedded human tonsil stained with CD13 Mouse Monoclonal Antibody (APN/6998). HIER: Tris/EDTA, pH9.0, 45min. 2 °: HRP-polymer, 30min. DAB, 5min.



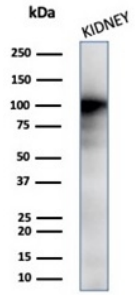
Formalin-fixed, paraffin-embedded human kidney stained with CD13 Mouse Monoclonal Antibody (APN/6998). Inset: PBS instead of primary antibody; secondary only negative control.



Formalin-fixed, paraffin-embedded human prostate stained with CD13 Mouse Monoclonal Antibody (APN/6998). Inset: PBS instead of primary antibody; secondary only negative control.



SDS-PAGE Analysis of Purified CD13 Mouse Monoclonal Antibody(APN/6998). Confirmation of Purity and Integrity of Antibody.



Western blot analysis of human kidney tissue lysate using CD13 Mouse Monoclonal Antibody (APN/6998).

Specificity & Comments

Recognizes an integral membrane glycoprotein of 150kDa, identified as CD13 (also known as aminopeptidase-N). The antibody recognizes an extracellular epitope. The CD13 antigen is present on most cells of myeloid origin including granulocytes, monocytes, mast cells, and GM-progenitor cells. It is also expressed by the majority of AML, CML in myeloid blast crisis, and in a smaller fraction of lymphoid leukemias. CD13 is absent from normal lymphocytes, platelets and erythrocytes. CD13 is also present on fibroblasts; endothelial cells, epithelial cells from renal proximal tubules and intestinal brush border, bone marrow stromal cells, osteoclasts, and cells lining bile duct canaliculi. CD13 is identical to aminopeptidase N (APN), a prominent membrane-bound metalloprotease present on the surface of intestinal brush border and renal tubules. CD13 plays a role in metabolism of biologically active peptides, in phagocytosis, and in bactericidal / tumoricidal activities. It also serves as a receptor for human coronaviruses (HCV). The lineage-restricted pattern of expression of CD13 within the hemopoietic compartment suggests that it may be important in myeloid cell differentiation.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular, Immunology, Neuroscience, Hematopoietic Stem Cells

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.