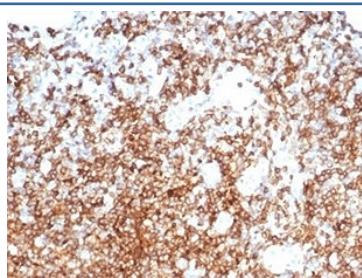


## Aminopeptidase-N Antibody / CD13 [clone APN/6998] (V4024)

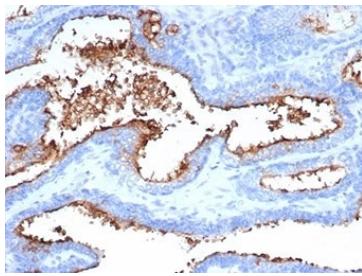
Catalog No.	Formulation	Size
V4024-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4024-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4024SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

**Bulk quote request**

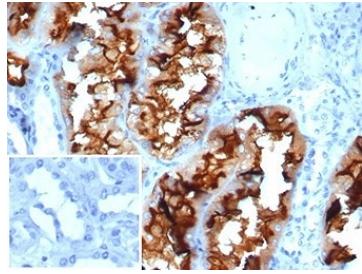
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clone Name</b>	APN/6998
<b>Purity</b>	Protein A/G affinity
<b>UniProt</b>	P15144
<b>Applications</b>	ELISA : order antibody without BSA for coating Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml
<b>Limitations</b>	This Aminopeptidase-N antibody is available for research use only.



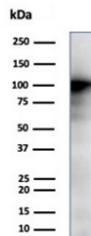
IHC staining of FFPE human tonsil with CD13 antibody (clone APN/6998). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human prostate tissue with CD13 antibody (clone APN/6998).  
HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human kidney with CD13 antibody (clone APN/6998). Negative control inset: PBS used instead of primary antibody to control for secondary Ab binding.  
HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Western blot testing of human kidney tissue lysate using CD13 antibody (clone APN/6998). Expected molecular weight: 110-150 kDa depending on glycosylation level.

## Description

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.

## Application Notes

Optimal dilution of the Aminopeptidase-N antibody should be determined by the researcher.

## Immunogen

A portion of amino acids 50-250 from the human protein was used as the immunogen for the Aminopeptidase-N antibody.

## Storage

Aliquot the Aminopeptidase-N antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.

