

CD13 rabbit pAb

Cat No.:ES4309

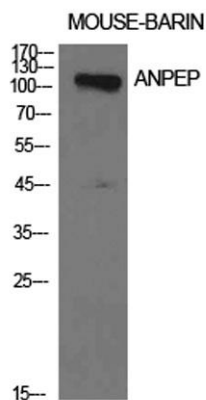
For research use only

Overview

Product Name	CD13 rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Rat;Mouse;
Recommended dilutions	Western Blot: 1/500 - 1/2000. IHC-p: 1:100-1:300. ELISA: 1/10000. Not yet tested in other applications.
Immunogen	Synthesized peptide derived from Aminopeptidase N at AA range: 881-930
Specificity	CD13 Polyclonal Antibody detects endogenous levels of CD13 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Aminopeptidase N
Gene Name	ANPEP
Cellular localization	Cell membrane ; Single-pass type II membrane protein . Also found as a soluble form. .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	110kD
Human Gene ID	290
Human Swiss-Prot Number	P15144
Alternative Names	ANPEP; APN; CD13; PEPN; Aminopeptidase N; AP-N; hAPN; Alanyl aminopeptidase; Aminopeptidase M; AP-M; Microsomal aminopeptidase; Myeloid plasma membrane glycoprotein CD13; gp150; CD13
Background	Aminopeptidase N is located in the small-intestinal and renal microvillar membrane, and also in other plasma membranes. In the small intestine aminopeptidase N plays a role in the final digestion

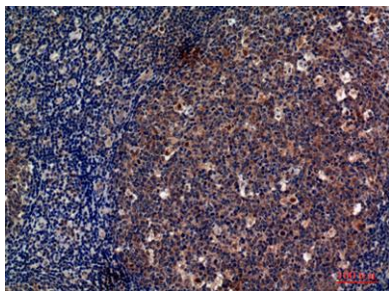


of peptides generated from hydrolysis of proteins by gastric and pancreatic proteases. Its function in proximal tubular epithelial cells and other cell types is less clear. The large extracellular carboxyterminal domain contains a pentapeptide consensus sequence characteristic of members of the zinc-binding metalloproteinase superfamily. Sequence comparisons with known enzymes of this class showed that CD13 and aminopeptidase N are identical. The latter enzyme was thought to be involved in the metabolism of regulatory peptides by diverse cell types, including small intestinal and renal tubular epithelial cells, macrophages, granulocytes, and synaptic membranes from the CNS. Human aminopeptidase N is

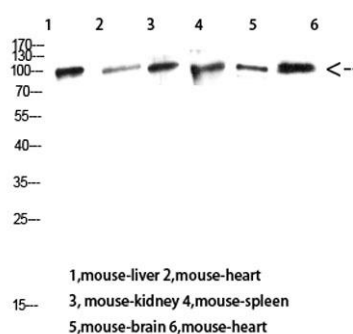
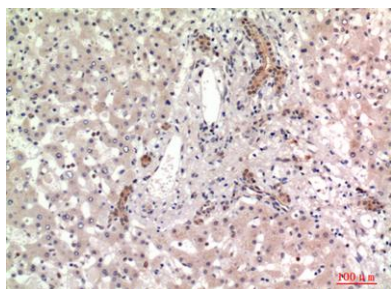


Western Blot analysis of mouse brain cells using CD13 Polyclonal Antibody. Antibody was diluted at 1:1000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000

Immunohistochemical analysis of paraffin-embedded human-tonsils, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100



Western Blot analysis of mouse-liver, mouse-heart, mouse-kidney, mouse-spleen, mouse-brain, mouse-heart using CD13 Polyclonal Antibody diluted at 1:1000. Secondary antibody (catalog#:RS0002) was diluted at 1:20000.

