

## CD10 Monoclonal Antibody

<b>Catalog No :</b>	YM0100
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	CD10
<b>Fields :</b>	>>Renin-angiotensin system;>>Hematopoietic cell lineage;>>Protein digestion and absorption;>>Alzheimer disease
<b>Gene Name :</b>	MME
<b>Protein Name :</b>	Neprilysin
<b>Human Gene Id :</b>	4311
<b>Human Swiss Prot No :</b>	P08473
<b>Mouse Swiss Prot No :</b>	Q61391
<b>Immunogen :</b>	Purified recombinant fragment of CD10 expressed in E. Coli.
<b>Specificity :</b>	CD10 Monoclonal Antibody detects endogenous levels of CD10 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. ELISA: 1:10000.. IF 1:50-200
<b>Purification :</b>	Affinity purification
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	86kD

**Cell Pathway :** Renin-angiotensin system;Hematopoietic cell lineage;Alzheimer's disease;

**P References :** 1. Journal of Gastroenterology,1996 Feb.31(1):12-7.  
2. British Journal of Haematology,1995,89(3):623-6.

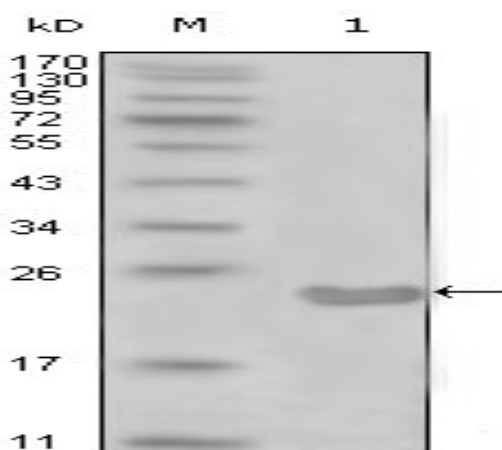
**Background :** This gene encodes a common acute lymphocytic leukemia antigen that is an important cell surface marker in the diagnosis of human acute lymphocytic leukemia (ALL). This protein is present on leukemic cells of pre-B phenotype, which represent 85% of cases of ALL. This protein is not restricted to leukemic cells, however, and is found on a variety of normal tissues. It is a glycoprotein that is particularly abundant in kidney, where it is present on the brush border of proximal tubules and on glomerular epithelium. The protein is a neutral endopeptidase that cleaves peptides at the amino side of hydrophobic residues and inactivates several peptide hormones including glucagon, enkephalins, substance P, neurotensin, oxytocin, and bradykinin. This gene, which encodes a 100-kD type II transmembrane glycoprotein, exists in a single copy of greater than 45 kb. The 5' untranslated region of this

**Function :** catalytic activity:Preferential cleavage of polypeptides between hydrophobic residues, particularly with Phe or Tyr at P1'.,cofactor:Binds 1 zinc ion per subunit.,disease:Important cell surface marker in the diagnostic of human acute lymphocytic leukemia.,enzyme regulation:Inhibited in a dose dependent manner by opiorphin.,function:Thermolysin-like specificity, but is almost confined on acting on polypeptides of up to 30 amino acids. Biologically important in the destruction of opioid peptides such as Met- and Leu-enkephalins by cleavage of a Gly-Phe bond. Involved in the degradation of atrial natriuretic factor (ANF).,similarity:Belongs to the peptidase M13 family.,

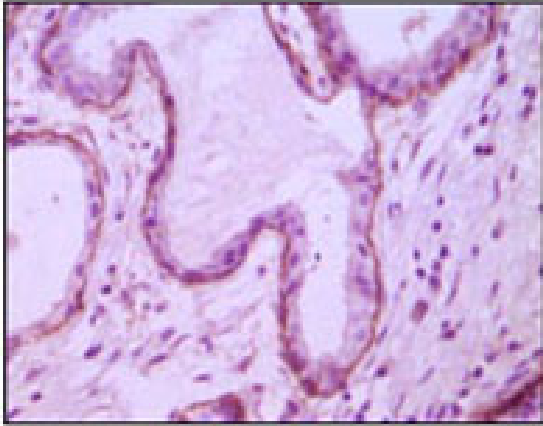
**Subcellular Location :** Cell membrane; Single-pass type II membrane protein.

**Expression :** Adrenal cortex,Brain,Kidney,Placenta,

## Products Images



Western Blot analysis using CD10 Monoclonal Antibody against truncated CD10-His recombinant protein (1).



Immunohistochemistry analysis of paraffin-embedded human breast ductal myoepithelium, showing cytoplasmic and membrane location with DAB staining using CD10 Monoclonal Antibody.