



CD10 Monoclonal Antibody

Catalog No	YP-Ab-13785
Isotype	IgG
Reactivity	Human
Applications	WB;IHC;IF;ELISA
Gene Name	MME
Immunogen	Purified recombinant fragment of CD10 expressed in E. Coli.
Specificity	CD10 Monoclonal Antibody detects endogenous levels of CD10 protein.
Formulation	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	WB: 1/500 - 1/2000. IHC: 1/200 - 1/1000. ELISA: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CD10;MME;Neprilysin;EPN;Atriopeptidase;Common acute lymphocytic leukemia antigen;CALLA;Enkephalinase;Neutral endopeptidase 24.11;NEP; Neutral endopeptidase;Skin fibroblast elastase;SFE;CD antigen CD10
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Cell membrane; Single-pass type II membrane protein.
Tissue Specificity	Adrenal cortex,Brain,Kidney,Placenta,
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.,



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

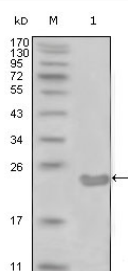
matters needing attention

Avoid repeated freezing and thawing!

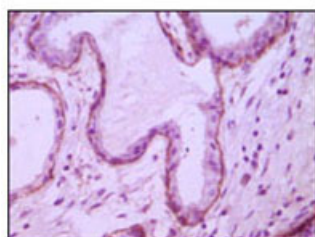
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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.