SunLong Biotech Co.,LTD
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Mouse Anti-CD10 antibody

SLM-51667M

Product Name	CD10
Chinese Name	CD10 单克隆抗体
Alias	NEP_HUMAN; Neprilysin; MME; membrane metalloendopeptidase; NEP; SFE; CD10; CALLA; CMT2T; SCA43; Atriopeptidase; Common acute lymphocytic leukemia antigen; CALLA; Enkephalinase; Neutral endopeptidase 24.11; Neutral endopeptidase; Skin fibroblast elastase;
Research Area	Tumour Cell biology immunology Stem cells Cell Surface Molecule Cell type markers The new supersedes the old
Immunogen Species	Mouse
Clonality	Monoclonal
Clone NO.	B4S1
React Species	Human
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	82kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human CD10: 401-550/750 <Extracellular>
Lsotype	IgG1,k
Purification	affinity purified by Protein G
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

PubMed PubMed

The protein encoded by this gene is a type II transmembrane glycoprotein and a common acute lymphocytic leukemia antigen that is an important cell surface marker in the diagnosis of human acute lymphocytic leukemia (ALL). The encoded 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. 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. [provided by RefSeq, Aug 2017]

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. Able to cleave angiotensin-1, angiotensin-2 and angiotensin 1-9. Involved in the degradation of atrial natriuretic factor (ANF). Displays UV-inducible elastase activity toward skin preelastic and elastic fibers.

Subunit:

Product Detail Homotetramer.

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

Post-translational modifications:
Myristoylation is a determinant of membrane targeting.
Glycosylation at Asn-628 is necessary both for surface expression and neutral endopeptidase activity.

DISEASE:
Defects in GNMT are the cause of glycine N-methyltransferase deficiency (GNMT deficiency) [MIM:606664]; also known as hypermethioninemia. The only clinical abnormalities in patients with this deficiency are mild hepatomegaly and chronic elevation of serum transaminases.

Similarity:
Belongs to the peptidase M13 family.

SWISS:
P08473

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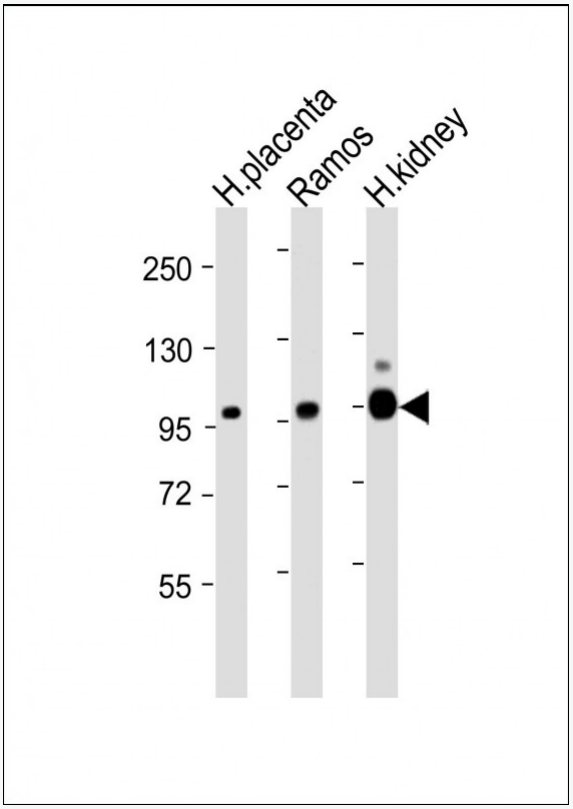
Gene ID:
4311

Database links:

Entrez Gene: 4311 Human

SwissProt: P08473 Human

Product Picture



Sample:

Lane 1: Human placenta tissue lysates

Lane 2: Ramos cell lysates

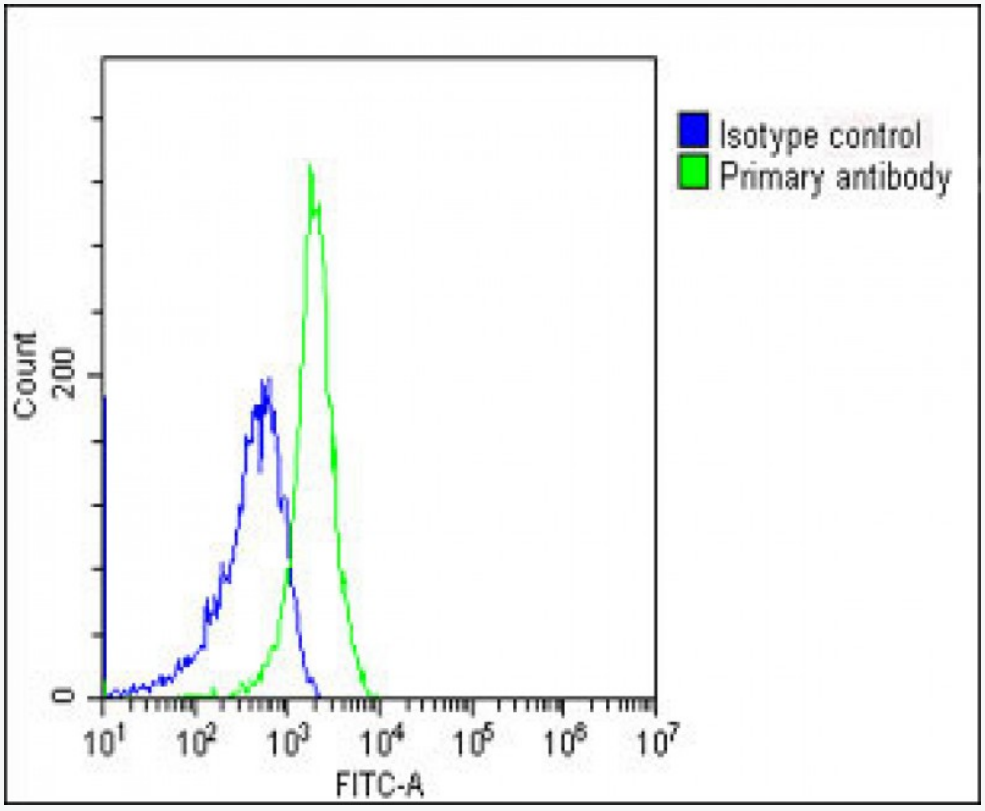
Lane 3: Human kidney tissue lysates

Primary: Anti-CD10 (SLM-51667M) at 1/4000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 82 kD

Observed band size:100 kD



Blank control:Jurkat.

Primary Antibody (green line): Mouse Anti-MME antibody

(SLM-51667M)

Dilution: 1:25;

Isotype Control Antibody (blue line): Mouse IgG Secondary Antibody :

Goat anti-mouse IgG-AF488

Dilution: 1:400 Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.