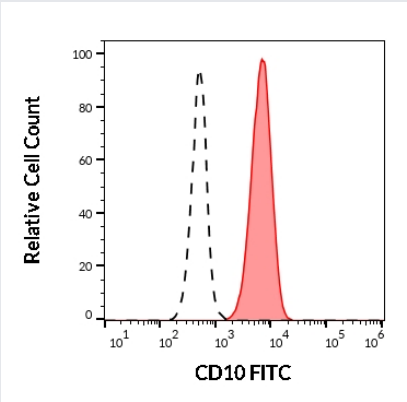
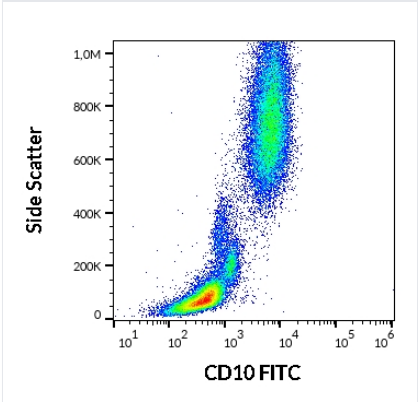
CD10 Antibody – Mouse

PRODUCT OVERVIEW

Product Name	CD10, Antibody
Full Product Name	Anti-Hu CD10 FITC
Product Gene Name	anti-CD10 antibody
Product Synonym Gene Name	MME
Product Synonym Names	membrane metalloendopeptidase; CALLA; Neprilysin; Neutral endopeptidase; Enkephalinase; Atriopeptidase; MME
Isotype	IgG1
Clone Number	LT10
Host	Mouse
Species Reactivity	Human
Form/Format	Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide
Purity/Purification	The purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Specificity	The antibody LT10 reacts with an extracellular epitope of CD10 (CALLA - Common acute lymphatic leukemia antigen), a 100 kDa type II integral membrane protein.
Preparation and Storage	Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light.
Matching Pairs	Unconjugated Antibody: CD10 Clone #LT10 (MBS1800871) FITC Conjugated Antibody: CD10 Clone #LT10 (MBS1800872)
OMIM	120520
3D Structure	ModBase 3D Structure for P08473
Immunogen	mouse NALM-6 leukemia pre-B cell line (tissue/cell preparation)
Conjugation	FITC
Applications Tested/Suitable for anti-CD10 antibody	Flow Cytometry (FC/FACS)
Application Notes for anti-CD10 antibody	FC/FACS: QC tested
Related Product Information for anti-CD10 antibody	CD10 (neutral endopeptidase - NEP, common acute lymphocytic leukemia antigen - CALLA, membrane metallo-endopeptidase - MME, enkefalinase) is a 100-kDa cell surface zinc metalloprotease cleaving peptide bonds on the N-terminus of hydrophobic amino acids and inactivating multiple physiologically active peptids. CD10 is expressed on various normal cell types, including lymphoid precursor cells, germinal center B lymhocytes, and some epithelial cells, and its expression level serves as a marker for identification of many carcinomas. CD10 is also a differentiation antigen for early B-lymphoid progenitors in the B-cell differentiation pathway and has a key role in regulation of growth, differentiation and signal transduction of many cellular systems.
Other Notes	Small volumes of anti-CD10 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD10 purchase	MBS1800872 is an antibody targeting CD10. Also known as Anti-Hu CD10 FITC. Reactive in Human. Host: Mouse.



Flow Cytometry (FC/FACS) of anti-CD10 antibody
Separation of human CD10 positive neutrophil granulocytes (red-filled) from human CD10 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD10 (LT10) FITC (20 ul reagent / 100 ul of peripheral whole blood).



Flow Cytometry (FC/FACS) of anti-CD10 antibody
Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD10 (LT10) FITC (20 ul reagent / 100 ul of peripheral whole blood).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD10. It may not necessarily be applicable to this product.

NCBI GI #	116256329
NCBI GeneID	4311
NCBI Accession #	NP_000893.2
UniProt Primary Accession #	P08473
UniProt Related Accession #	P08473
GenBank Nucleotide #	NP_000893.2
NCBI Official Full Name	neprilysin isoform a
NCBI Official Synonym Full Names	membrane metalloendopeptidase
NCBI Official Symbol	MME
NCBI Official Synonym Symbols	NEP; SFE; CD10; CALLA; CMT2T; SCA43
UniProt Protein Name	Neprilysin
UniProt Synonym Protein Names	Atriopeptidase; Common acute lymphocytic leukemia antigen; CALLA; Enkephalinase; Neutral endopeptidase 24.11; NEP; Neutral endopeptidase; Skin fibroblast elastase
Protein Family	CD109 antigen
UniProt Gene Name	MME
UniProt Synonym Gene Names	EPN; CALLA; NEP; Neutral endopeptidase; SFE
UniProt Entry Name	NEP_HUMAN
NCBI Protein Information	neprilysin
NCBI Summary for CD10	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]

Research Articles on CD10	**1.** Study identified neutral endopeptidase (NEP) that is upregulated in human abdominal aortic aneurysm (AAA) tissue as a major enzyme that metabolizes and inactivates APLN17 peptide. NEP cleavage resistant APLN17 analog ameliorated Ang II-mediated adverse aortic remodeling and AAA formation in mouse model of AAA. Study defines a critical role of APLN in AAA formation through induction of ACE2 and protection of vascular SMCs.
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