MME monoclonal antibody, clone MEM-78 (FITC)

Catalog # MAB4605 Size 100 Reactions

Specification

Product Description	Mouse monoclonal antibody raised against native MME.
Immunogen	Native purified MME from NALM-6 human pre-B cell line.
Host	Mouse
Theoretical MW (kDa)	100
Reactivity	Human
Specificity	This antibody reacts with CD10 antigen (CALLA - Common acute lymphatic leukemia antigen), a 10 0 KDa type II integral membrane protein.
Form	Liquid
Conjugation	FITC
Isotype	IgG1
Recommend Usage	Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10^6 cells in a suspension) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.2% BSA, 0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Flow Cytometry

Gene Info — MME

Entrez GeneID	4311
Gene Name	MME
Gene Alias	CALLA, CD10, DKFZp686O16152, MGC126681, MGC126707, NEP
Gene Description	membrane metallo-endopeptidase
Omim ID	120520
Gene Ontology	Hyperlink
Gene Summary	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 gene is alternatively spliced, resulting in four separate mRNA transcripts. The coding region is not affected by alternative splicing. [provided by RefSeq
Other Designations	atriopeptidase|common acute lymphocytic leukemia antigen|enkephalinase|membrane metallo-endopeptidase (neutral endopeptidase, enkephalinase)|membrane metallo-endopeptidase (neutral endopeptidase, enkephalinase, CALLA, CD10)|membrane metallo-endopeptidase

Publication Reference

- Differential expression of CD10 in prostate cancer and its clinical implication.

  Dall'Era MA, True LD, Siegel AF, Porter MP, Sherertz TM, Liu AY.

  BMC Urology 2007 Mar; 7:3.

- CD10 expression by fusiform stromal cells in nasopharyngeal carcinoma correlates with tumor progression.

  Braham H, Trimeche M, Ziadi S, Mestiri S, Mokni M, Amara K, Hachana M, Sriha B, Korbi S.

  Virchows Archiv : an International Journal of Pathology 2006 May; 449(2):220.

- Monoclonal antibodies against human leucocyte antigens. II. Antibodies against CD45 (T200), CD3 (T3), CD43, CD10 (CALLA), transferrin receptor (T9), a novel broadly expressed 18-kDa antigen (MEM-43) and a novel antigen of restricted expression (MEM-74).

  Horejsí V, Angelisová P, Bazil V, Kristofová H, Stoyanov S, Stefanová I, Hausner P, Vosecký M, Hilgert I.

  Folia Biol (Praha) 1988 Jan; 34(1):23.

Pathway

- Hematopoietic cell lineage
- Renin-angiotensin system

Disease

- Alzheimer disease
- Anorexia Nervosa
- Atherosclerosis
- Brain Injuries
- Bulimia
- Calcinosis
- Cardiovascular Diseases
- Coronary Artery Disease
- Diabetes Complications
- Genetic Predisposition to Disease
- Metabolic Syndrome X
- Neoplasms
- Osteoporosis