



Mouse Anti-Human CD10 monoclonal antibody, clone JID636 (CABT-L2877)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	This antibody is intended for qualified laboratories to qualitatively identify by light microscopy the presence of associated antigens in sections of formalin-fixed, paraffin-embedded tissue sections using IHC test methods.
Specificity	Human CD10
Isotype	IgG
Source/Host	Mouse
Species Reactivity	Human
Clone	JID636
Conjugate	Unconjugated
Applications	IHC
Reconstitution	The prediluted antibody does not require any mixing, dilution, reconstitution, or titration; the antibody is ready-to-use and optimized for staining. The concentrated antibody requires dilution in the optimized buffer, to the recommended working dilution range.
Positive Control	Kidney, Lymph Node, Tonsil
Format	Liquid
Size	Predilute: 7 ml, Concentrate: 100 µl, Concentrate: 1 ml
Buffer	Predilute: Antibody Diluent Buffer Concentrate: Tris Buffer, pH 7.3 - 7.7, with 1% BSA

Preservative	< 0.1% Sodium Azide
Storage	Store at 2-8°C. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	Cluster of differentiation 10 (CD10) is a cell surface metalloendopeptidase which cleaves and inactivates several peptide hormones including glucagon, enkephalins, substance P, neurotensin, oxytocin, bradykinin, and angiotensins I and II. CD10 is expressed by early lymphoid progenitors and normal germinal centers. Also known as Common Acute Lymphoblastic Leukemia Antigen (CALLA), it is an important cell surface marker in the diagnosis of human ALL (Acute Lymphocytic Leukemia), and found positive in precursor B lymphoblastic leukemia/lymphoma, angioimmunoblastic T cell lymphoma, Burkitt lymphoma and follicular germinal center lymphoma. CD10 expression has also been reported in a variety of non-hematolymphoid tissues, particularly abundant in kidney. It is a useful aid in the diagnosis of various malignant tumours such as renal cell carcinoma, endometrial stromal sarcoma, and hepatocellular carcinoma.
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Keywords	MME;membrane metallo-endopeptidase;NEP;SFE;CD10;CALLA;neprilysin;enkephalinase;atriopeptidase;neprilysin-390
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GENE INFORMATION

Gene Name	MME membrane metallo-endopeptidase [Homo sapiens (human)]
Official Symbol	MME
Synonyms	MME; membrane metallo-endopeptidase; NEP; SFE; CD10; CALLA; neprilysin; enkephalinase; atriopeptidase; neprilysin-390; neprilysin-411; skin fibroblast elastase; neutral endopeptidase 24.11; membrane metallo-endopeptidase variant 1; membrane metallo-endopeptidase variant 2; common acute lymphocytic leukemia antigen; membrane metallo-endopeptidase (neutral endopeptidase, enkephalinase); membrane metallo-endopeptidase (neutral endopeptidase, enkephalinase, CALLA, CD10);
Entrez Gene ID	4311
Protein Refseq	NP_000893
UniProt ID	P08473
Chromosome Location	3q25.2

Pathway	Alzheimers disease; Alzheimers Disease; Hematopoietic cell lineage; Metabolism of Angiotensinogen to Angiotensins; Metabolism of proteins; Peptide hormone metabolism; Protein digestion and absorption; Renin-angiotensin system;
Function	endopeptidase activity; exopeptidase activity; metalloendopeptidase activity; peptide binding; protein binding; zinc ion binding;