

CD10 Monoclonal Antibody (2A1H5E1)

Catalog Number

MA5-15231

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Mouse / IgG2b	Published species	Human
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	ELISA (ELISA)	1:10,000
Clone	2A1H5E1	Immunohistochemistry (Paraffin) (IHC (P))	1:200-1:1,000
Immunogen	Purified recombinant fragment of human CD-10 expressed in E. Coli.	Published Applications	
Conjugate	Unconjugated	Immunohistochemistry (Paraffin) (IHC (P))	See 1 publications below
Form	Liquid	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Concentration	1.0 mg/mL		
Purification	Protein G		
Storage buffer	PBS		
Contains	0.03% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

MA5-15231 targets CD10 in indirect ELISA, IHC applications and shows reactivity with Human samples. The MA5-15231 immunogen is purified recombinant fragment of human CD-10 expressed in E. Coli.

Background/Target Information

CD10 (Common Acute Lymphocytic Leukemia Antigen, CALLA), is a cell surface enzyme with neutral metalloendopeptidase activity which inactivates a variety of biologically active peptides. CD10 is expressed on the cells of lymphoblastic, Burkitt's, and follicular germinal center lymphomas, immature B cells with in adult bone marrow and on cells from patients with chronic myelocytic leukemia (CML). CD10 is also present on breast myoepithelial cells, bile canaliculi, fibroblasts, with especially high expression on the brush border of kidney and gut epithelial cells. CD10 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. Further, CD10 is a 100 kDa type II transmembrane glycoprotein that exists in a single copy of greater than 45 kb. The 5' untranslated region of the CD10 gene is alternatively spliced, resulting in four separate mRNA transcripts and the coding region is not affected by alternative splicing. Diseases associated with CD10 dysfunction include spinocerebellar ataxia 43 and Charcot-Marie tooth Disease.

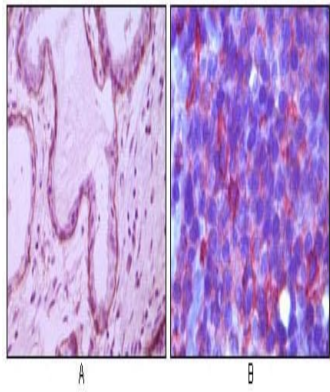
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Product Images For CD10 Monoclonal Antibody (2A1H5E1)



CD10 Antibody (MA5-15231) in IHC (P)

Immunohistochemical analysis of paraffin-embedded human breast ductal myoepithelium (A) and lymph tissue (B), showing cytoplasmic (A) and membrane (B) localization using CD10/MME monoclonal antibody (Product # MA5-15231) followed with DAB staining (A) and AEC staining (B).

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PubMed References For CD10 Monoclonal Antibody (2A1H5E1)

1 Immunohistochemistry (Paraffin) References

Species / Dilution	Summary
	MA515231 was used in immunohistochemistry - paraffin section to study the roles of vasoactive intestinal peptide, substance P, and calcitonin gene-related peptide in chronic gastritis and duodenitis in children
Human / Not Cited	World journal of gastroenterology (2016; 22: 8349) "Childhood chronic gastritis and duodenitis: Role of altered sensory neuromediators." Author(s):Islek A,Yilmaz A,Elpek GO,Erin N PubMed Article URL: http://dx.doi.org/10.3748/wjg.v22.i37.8349

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