

CD10, CALLA (Neutral Endopeptidase)

Availability/Contents:	Item #	Volume
	A20091	2 ml
	A00091	6 ml
	A00091.25	25 ml

Description:


Species:	Mouse
Immunogen:	Recombinant external domain of CD10 protein.
Clone:	56C6
Isotype:	IgG ₁
Format:	This antibody has been pretitered and quality controlled to work on formalin-fixed paraffin-embedded as well as acetone fixed cryostat tissue sections. No further titration is required.
Specificity:	Recognizes a 100kDa glycoprotein, identified as CD10, also known as Commori Acute Lymphocytic Leukemia Antigen (CALLA). It 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, and on cells from patients with chronic myelocytic leukemia (CML). It is also expressed on the surface of normal early lymphoid progenitor cells, immature B cells within adult bone marrow and germinal center B cells within lymphoid tissue. 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.
Species Reactivity:	Human, Rat. Others not tested.
Positive Control:	Small intestine or kidney.
Cellular Localization:	Cell Membrane
Titer/Working Dilution:	No further dilution is required.
Microbiological State:	This product is not sterile.


Uses/Limitations: For In Vitro Diagnostic Use.
This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy.
Do not use past expiration date.




Storage and Stability: 2-8° Centigrade.
Product is stable for 24 months from date of manufacture.
If reagent is not stored as recommended, performance must be validated by the user.

Procedure:

1. Tissue Section Pretreatment: Staining of formalin fixed, paraffin embedded tissue sections is enhanced by pretreatment with Citrate Plus (ScyTek catalog# CPL500) or 10mM citrate buffer, pH 6.0 (ScyTek Catalog# CBB500, see IFU for instructions).
2. Primary Antibody Incubation Time: We suggest an incubation period of 30 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubation should

Storage: 2°C  8°C

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be determined by the user.


3. Visualization: For maximum staining intensity we recommend the "Retrieval HRP Anti-Polyvalent Lab Pack" (ScyTek catalog# RPL125, see IFU for instructions) combined with the "DAB Chromogen/Substrate Bulk Pack (High Contrast)" (ScyTek catalog# ACV500, see IFU for instructions).


Precautions: Contains Sodium Azide as a preservative (0.09% w/v).
Do not pipette by mouth.
Avoid contact of reagents and specimens with skin and mucous membranes.
Avoid microbial contamination of reagents or increased nonspecific staining may occur.
This product contains no hazardous material at a reportable concentration according to U.S. 29 CFR 1910.1200, OSHA Hazardous Communication Standard and EC Directive 91/155/EC.

References:

1. Guerin S; Mari B; Belhacene N; Rossi B; Peyron JF; Auberger P. CD10 (Endopeptidase 24.11) is a thymic peptide-degrading enzyme possibly involved in the regulation of thymocyte functions. *Cellular Immunology*, 1997 Jan 10, 175(1):85-91.
2. Guerin S; Mari B; Maulon L; Belhacene N; Marguet D; Auberger P. CD10 plays a specific role in early thymic development. *Faseb Journal*, 1997 Apr. 11(5):376-81.
3. Ishimaru F; Potter NS; Shipp MA. Phorbol ester-mediated regulation of CD10/neutral endopeptidase transcript in acute lymphoblastic leukemias. *Experimental Hematol*, 1996, 24:43-8.
4. Sato Y; Itoh F; Hindoa Y; Ohe Y; Nakagawa N; Ueda R; Yachi A; Imai K. Expression of CD10/neutral endopeptidase in normal and malignant tissues of the human stomach and colon. *Journal of Gastroenterology*, 1996 Feb, 31(1):12-7.
5. Cirone M; De Maria R; D'Alessandro A; Frati L; Faggioni A; Ragona G. Epstein-Barr virus DNA is present both in CD10/CD77 positive and negative subsets fo human tonsillar lymphocytes. *Cancer Letters*, 1995 Feb 10, 89(1):125-8.
6. de Saint-Vis B; Cupillard L; Pandrau-Garcia D; Ho S; Renard N; Grouard G; Duver V; Thomas X; Galizzi JP; Banchereau J; et al. Distribution of carboxypeptidase M on lymphoid and myeloid cells parallels the other zinc-dependent proteases CD10 and CD13. *Blood*, 1995 Aug 1, 86(3):1098-105.

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