

Instructions For Use
A9152C-IFU

Rev. Date: 10/22/03

Revision: 2

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CD10, CALLA, Neutral Endopeptidase, (Clone 56C6), Concentrate

Description:

Species:	Mouse Monoclonal.
Immunogen:	Recombinant external domain of CD10 protein.
Clone:	56C6
Isotype:	IgG ₁
Format:	This antibody is supplied as a tissue culture supernatant containing sodium azide as a preservative.
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.
Cellular Localization:	Cell membrane.
Titer/Working Dilution:	1:30 – 1:60.

Uses/Limitations: Immunohistochemistry (Formalin/Paraffin)
For Research Use Only.
Do not use past expiration date.

Storage: 2-8° Centigrade.

Procedure: ScyTek Laboratories, Inc. suggests an incubation period of 60 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubations should be determined by the user. Pretreatment with Citrate Plus (catalog # CPL500) is **required**. For optimal staining, use ScyTek Laboratories UltraTek products or other high sensitivity detection system.

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Precautions: Contains Sodium Azide as a preservative.
Do not pipette by mouth.

- References:**
1. Guerin S; Mari B; Belhacene N; Rossi B; Peyron JF; Auburger 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; Auburger 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 of 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.