

**Mouse Anti-CD10 [56C6]: MC0277, MC0277RTU7**

**Intended Use:** For Research Use Only

**Description:** The common acute lymphoblastic leukemia antigen (CALLA/CD10) is a single-pass type II transmembrane metallo-endopeptidase that cleaves and inactivates a variety of peptide growth factors important for signal transduction including the enkephalins, bombesin and substance P. CD10 is expressed by a number of hematopoietic cells such as immature T and B cells, B cells of the germinal centers of lymphoid follicles and granulocytes. It also reacts with a variety of non-hematopoietic cells, including epithelial cells in GI tract and kidney tubular. In liver, the bile canaliculi shows a moderate to strong staining. CD10 has been used for the identification and classification of certain types of malignant lymphoma and leukemia. CD10 is expressed in a high percentage of cases of acute lymphoblastic leukemia, follicular lymphoma, Burkitt's lymphoma, some hematopoietic tumors, and chronic myelogenous leukemias in lymphoid blast crisis. It is also known to be a marker of endometrial stromal cells. It is helpful in differentiating endometrial stromal sarcoma (ESS) from uterine cellular leiomyoma (UCL) and uterine leiomyosarcoma (ULS).

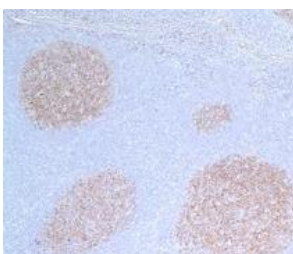
**Specifications:**

Clone: 56C6  
 Source: Mouse  
 Isotype: IgG1k  
 Reactivity: Human, cat, dog  
 Localization: Membrane  
 Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, WB  
 Package:

Description	Catalog No.	Size
CD10 Concentrated	MC0277	1 ml
CD10 Prediluted	MC0277RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: Tonsil, follicular lymphoma  
 Concentrated Dilution: 25-50  
 Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual  
 \* Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with anti-CD10 using DAB

**References:**

1. Surgical monotherapy may be a suitable therapeutic strategy for advanced collecting (Bellini) duct carcinoma: A case report and literature review. Zhu L, et al. *Exp Ther Med* 12:1181-1184, 2016.
2. Analysis of the clonal architecture of the human small intestinal epithelium establishes a common stem cell for all lineages and reveals a mechanism for the fixation and spread of mutations. Gutierrez-Gonzalez L, et al. *J Pathol* 217:489-96, 2009.
3. Changes in expression pattern of selected endometrial proteins following mesenchymal stem cells infusion in mares with endometriosis. Mambelli LI, et al. *PLoS One* 9:e97889, 2014.

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