

Mouse Anti-CD10 [MD182]: MC0272, MC0272RTU7

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:

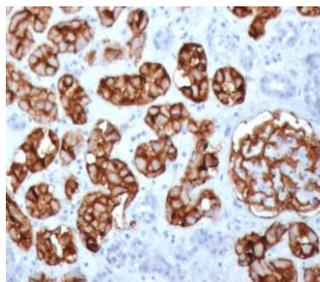
Clone: MD182
 Source: Mouse
 Isotype: IgG2b/k
 Reactivity: Human
 Immunogen: Recombinant human CD10 protein fragment aa 54-181
 Localization: Membrane, cytoplasm
 Formulation: Purified antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC
 Package:

Description	Catalog No.	Size
CD10 Concentrated	MC0272	1 ml
CD10 Prediluted	MC0272RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Kidney, prostate
 Concentrated Dilution: 50-200
 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 kidney 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.

Doc. 100-MC0272
Rev. C