

## 36-2778: Anti-CD10 (Membrane Metalloendopeptidase) Monoclonal Antibody(Clone: MME/1870)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	MME/1870
<b>Application :</b>	WB,IHC
<b>Reactivity :</b>	Human
<b>Gene :</b>	MME
<b>Gene ID :</b>	4311
<b>Uniprot ID :</b>	P08473
<b>Alternative Name :</b>	Atriopeptidase; Common acute lymphocytic leukemia antigen (CALLA); Enkephalinase (EPN); gp100; Membrane metalloendopeptidase (MME); Neprilysin; Neutral endopeptidase (NEP); Skin fibroblast elastase (SFE)
<b>Isotype :</b>	Mouse IgG2c, kappa
<b>Immunogen Information :</b>	Recombinant human CD10 protein fragment (aa297-483) (exact sequence is proprietary)

### Description

Recognizes a 100kDa glycoprotein, identified as CD10, also known as Common 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.

### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage condition :</b>	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

### Application Note

Western Blot (1-2ug/ml);Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes)

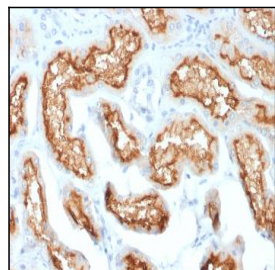


Fig. 1: Formalin-fixed, paraffin-embedded human Kidney stained with CD10 Mouse Monoclonal Antibody (MME/1870).

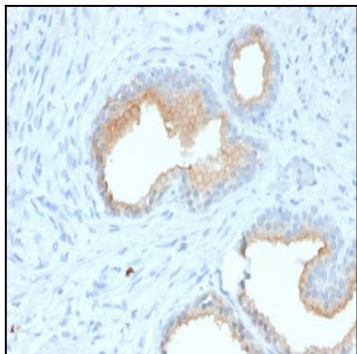


Fig. 2: Formalin-fixed, paraffin-embedded human Prostate stained with CD10 Mouse Monoclonal Antibody (MME/1870).

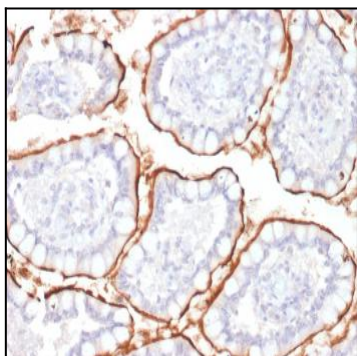


Fig. 3: Formalin-fixed, paraffin-embedded human Colon stained with CD10 Mouse Monoclonal Antibody (MME/1870).

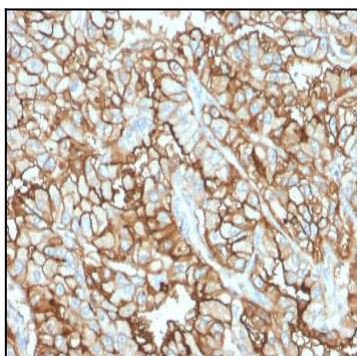


Fig. 4: Formalin-fixed, paraffin-embedded human Renal Cell Carcinoma stained with CD10 Mouse Monoclonal Antibody (MME/1870).

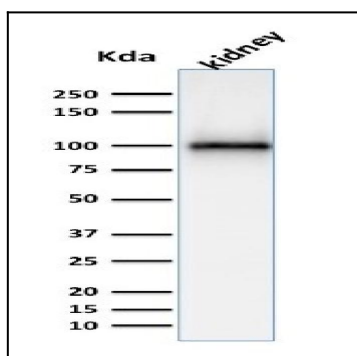


Fig. 5: Western Blot Analysis of kidney tissue lysate using CD10 Mouse Monoclonal Antibody (MME/1870).

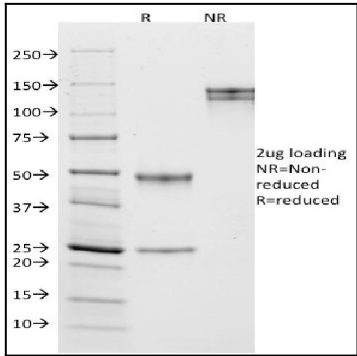


Fig. 6: SDS-PAGE Analysis Purified CD10 Mouse Monoclonal Antibody (MME/1870). Confirmation of Purity and Integrity of Antibody.

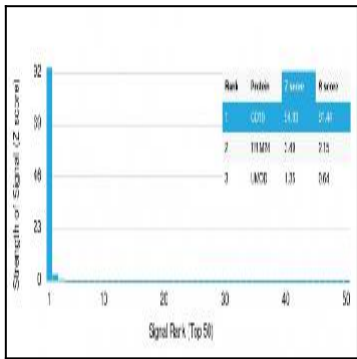


Fig. 7: Analysis of Protein Array containing more than 19,000 full-length human proteins using CD10 Mouse Monoclonal Antibody (MME/1870) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.