

## Anti-CD10 Antibody (51446)

### Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	51446
Purification:	Protein A

### Applications

Verified Activity:	<ol style="list-style-type: none"><li>1. Anti-MME mouse monoclonal antibody at 1:500 dilution.<ul style="list-style-type: none"><li>-Lane A: Raji Whole Cell lysate.</li><li>-Lysates/proteins at 30 µg per lane.</li><li>-Secondary<ul style="list-style-type: none"><li>-Goat Anti-Mouse IgG (H+L)/HRP at 1/10000 dilution.</li></ul></li><li>-Developed using the ECL technique.</li><li>-Performed under reducing conditions.</li><li>-Predicted band size:85 kDa.</li></ul></li><li>2. Immunochemical staining of human CD10 in human lymphoma with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.</li><li>3. Immunochemical staining of human CD10 in human Submandibular gland inflammation with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.</li><li>4. Immunochemical staining of human CD10 in human uterus cancer with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.</li><li>5. MME was immunoprecipitated using:<ul style="list-style-type: none"><li>-Lane A:0.5 mg Raji Whole Cell Lysate.</li><li>-4 µL anti-MME mouse monoclonal antibody and 60 µg of Immunomagnetic beads Protein A/G.</li><li>-Primary antibody:<ul style="list-style-type: none"><li>-Anti-MME mouse monoclonal antibody, at 1:100 dilution.</li></ul></li><li>-Secondary antibody:<ul style="list-style-type: none"><li>-Rabbit Anti-Mouse IgG F(ab)2/HRP at 1/10000 dilution.</li></ul></li><li>-Developed using the ECL technique.</li><li>-Performed under reducing conditions.</li><li>-Predicted band size: 85 kDa.</li><li>-Observed band size:100 kDa</li></ul></li></ol>
Application:	IHC-P,IP,WB
Recommended	WB: 1:500-1:2000; IHC-P: 1:20-1:100; IP: 1-5 µL/mg of lysate

### Properties

**Stability & Storage:** Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.

**Shipping:** Shipping with blue ice.

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### Antigen Details

**Immunogen:** Recombinant Protein: Human CD10 Protein (TMPY-02315)

**Antigen Species:** Human

**Synonyms:** membrane metallo-endopeptidase

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### Research Background

The cluster of differentiation (CD) system is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alters the behavior of the cell. Some CD proteins do not take part in the cell signal process but have other functions such as cell adhesion. The cluster of differentiation 10 (CD10), also known as Neprilysin and neutral endopeptidase, is a member of the CD system. CD10 is a zinc-dependent metalloprotease enzyme that had the function to degrade some small secreted peptides such as the amyloid beta-peptide. It exists as a membrane-bound protein and has a high concentration in kidney and lung tissues. Mutations in the CD10 gene can induce the familial forms of Alzheimer's disease, providing strong evidence for the protein's association with the Alzheimer's disease process. CD10 is also associated with other biochemical processes.

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