

**CD10**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2671a****Specification**

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**CD10 - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | <b>E, WB, IHC</b>      |
| Primary Accession | <a href="#">P08473</a> |
| Reactivity        | <b>Human</b>           |
| Host              | <b>Mouse</b>           |
| Clonality         | <b>Monoclonal</b>      |
| Isotype           | <b>Mouse IgG1</b>      |
| Calculated MW     | <b>85.5kDa KDa</b>     |

**Immunogen**

Purified recombinant fragment of human CD10 (AA: extra 549-750) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**CD10 - Additional Information**

**Gene ID** 4311

**Other Names**

NEP; SFE; MME; CALLA; CMT2T; SCA43

**Dilution**

E~~ 1/10000  
WB~~ 1/500 - 1/2000  
IHC~~1/200 - 1/1000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CD10 is for research use only and not for use in diagnostic or therapeutic procedures.

**CD10 - Protein Information**

**Name** MME {ECO:0000303|PubMed:27588448, ECO:0000312|HGNC:HGNC:7154}

**Function**

Thermolysin-like specificity, but is almost confined on acting on polypeptides of up to 30 amino acids (PubMed:<a href="http://www.uniprot.org/citations/15283675" target="\_blank">15283675</a>, PubMed:<a href="http://www.uniprot.org/citations/6208535" target="\_blank">6208535</a>, PubMed:<a href="http://www.uniprot.org/citations/6349683" target="\_blank">6349683</a>)

target="\_blank">6349683</a>, PubMed:<a href="http://www.uniprot.org/citations/8168535" target="\_blank">8168535</a>). Biologically important in the destruction of opioid peptides such as Met- and Leu-enkephalins by cleavage of a Gly-Phe bond (PubMed:<a href="http://www.uniprot.org/citations/17101991" target="\_blank">17101991</a>, PubMed:<a href="http://www.uniprot.org/citations/6349683" target="\_blank">6349683</a>). Catalyzes cleavage of bradykinin, substance P and neurotensin peptides (PubMed:<a href="http://www.uniprot.org/citations/6208535" target="\_blank">6208535</a>). Able to cleave angiotensin-1, angiotensin-2 and angiotensin 1-9 (PubMed:<a href="http://www.uniprot.org/citations/15283675" target="\_blank">15283675</a>, PubMed:<a href="http://www.uniprot.org/citations/6349683" target="\_blank">6349683</a>). Involved in the degradation of atrial natriuretic factor (ANF) and brain natriuretic factor (BNP(1-32)) (PubMed:<a href="http://www.uniprot.org/citations/16254193" target="\_blank">16254193</a>, PubMed:<a href="http://www.uniprot.org/citations/2531377" target="\_blank">2531377</a>, PubMed:<a href="http://www.uniprot.org/citations/2972276" target="\_blank">2972276</a>). Displays UV-inducible elastase activity toward skin preelastic and elastic fibers (PubMed:<a href="http://www.uniprot.org/citations/20876573" target="\_blank">20876573</a>).

### Cellular Location

Cell membrane; Single-pass type II membrane protein

### CD10 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### CD10 - Images

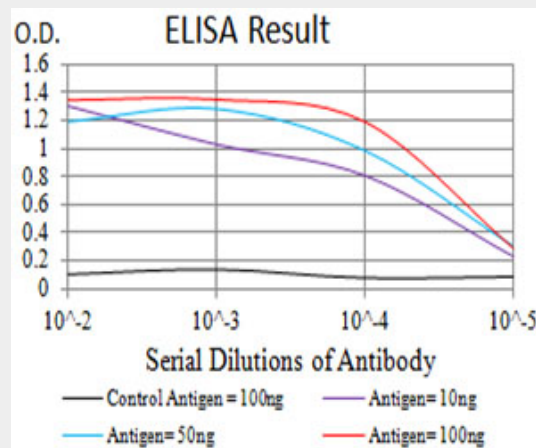


Figure 1: Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

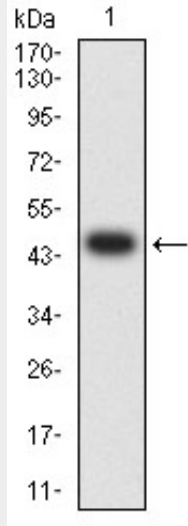


Figure 2:Western blot analysis using CD10 mAb against human CD10 (AA: extra 549-750) recombinant protein. (Expected MW is 48.8 kDa)

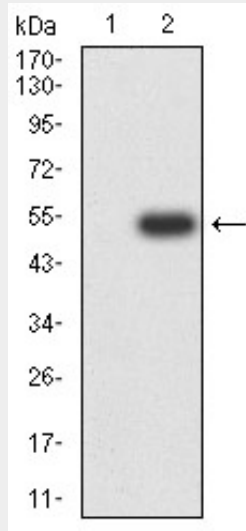


Figure 3:Western blot analysis using CD10 mAb against HEK293 (1) and CD10 (AA: extra 549-750)-hlgGfc transfected HEK293 (2) cell lysate.

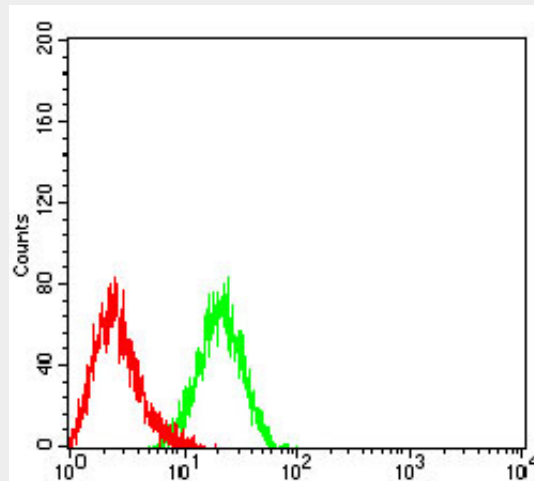


Figure 4:Flow cytometric analysis of HL-60 cells using CD10 mouse mAb (green) and negative

control (red).

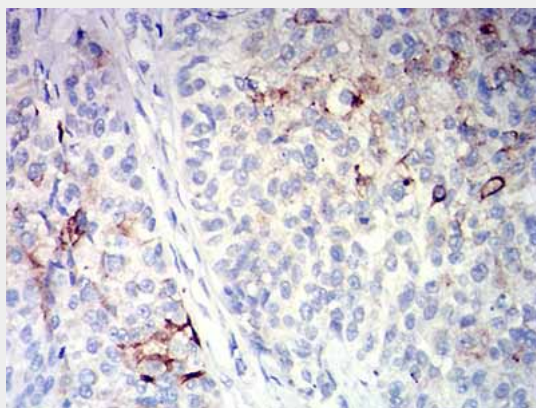


Figure 5: Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using CD10 mouse mAb with DAB staining.

#### **CD10 - References**

1. Pathobiology. 2015;82(6):259-63.
2. Asian Pac J Cancer Prev. 2015;16(8):3147-52.