

# CD10

Purified Mouse Monoclonal Antibody  
Catalog # AO2671a

## Product Information

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|--------------------------|---|
| <b>Application</b>       | WB, IHC, ICC, E   |
| <b>Primary Accession</b> | <a href="#">P08473</a>  |
| <b>Reactivity</b>        | Human   |
| <b>Host</b>              | Mouse   |
| <b>Clonality</b>         | Monoclonal  |
| <b>Clone Names</b>       | 3G6B11  |
| <b>Isotype</b>           | Mouse IgG1  |
| <b>Calculated MW</b>     | 85514   |
| <b>Immunogen</b>         | Purified recombinant fragment of human CD10 (AA: extra 549-750) expressed in E. Coli. |
| <b>Formulation</b>       | Purified antibody in PBS with 0.05% sodium azide                                      |

## Additional Information

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|--------------------|--|
| <b>Gene ID</b>     | 4311   |
| <b>Other Names</b> | NEP; SFE; MME; CALLA; CMT2T; SCA43   |
| <b>Dilution</b>    | WB~~ 1/500 - 1/2000 IHC~~1/200 - 1/1000 ICC~~N/A E~~ 1/10000   |
| <b>Storage</b>     | 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. |
| <b>Precautions</b> | CD10 is for research use only and not for use in diagnostic or therapeutic procedures.   |

## Protein Information

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| <b>Name</b>     | MME {ECO:0000303   PubMed:27588448, ECO:0000312   HGNC:HGNC:7154}  |
| <b>Function</b> | Thermolysin-like specificity, but is almost confined on acting on polypeptides of up to 30 amino acids (PubMed: <a href="#">15283675</a> , PubMed: <a href="#">6208535</a> , PubMed: <a href="#">6349683</a> , PubMed: <a href="#">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="#">17101991</a> , PubMed: <a href="#">6349683</a> ). Catalyzes cleavage of bradykinin, substance P and neurotensin peptides (PubMed: <a href="#">6208535</a> ). Able to cleave angiotensin-1, angiotensin-2 and angiotensin 1-9 (PubMed: <a href="#">15283675</a> , PubMed: <a href="#">6349683</a> ). Involved in the degradation of atrial natriuretic factor (ANF) and brain natriuretic factor (BNP(1-32)) |

(PubMed:[16254193](#), PubMed:[2531377](#), PubMed:[2972276](#)). Displays UV-inducible elastase activity toward skin preelastic and elastic fibers (PubMed:[20876573](#)).

## Cellular Location

Cell membrane; Single-pass type II membrane protein

## References

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

## Images

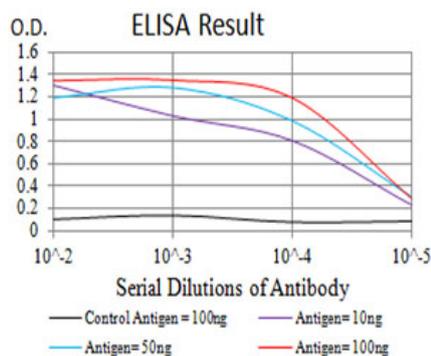


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

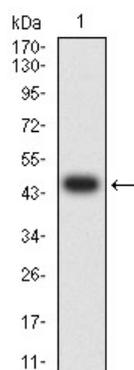


Figure 2:Western blot analysis using CD10 mAb against human CD10 (AA: extra 549-750) recombinant protein. (Expected MW is 48.8 kDa)

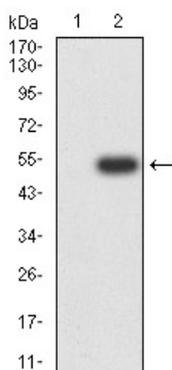


Figure 3:Western blot analysis using CD10 mAb against HEK293 (1) and CD10 (AA: extra 549-750)-hIgGfc transfected HEK293 (2) cell lysate.

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

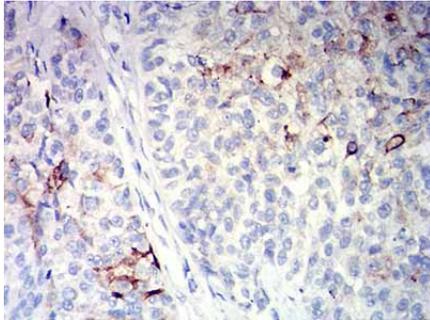
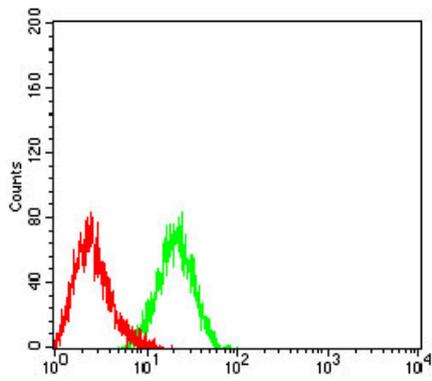


Figure 5: Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using CD10 mouse mAb with DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.