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CD10

Purified Mouse Monoclonal Antibody
Catalog # AO2671a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	P08473
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	3G6B11
Isotype	Mouse IgG1
Calculated MW	85514
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

Additional Information

Gene ID	4311
Other Names	NEP; SFE; MME; CALLA; CMT2T; SCA43
Dilution	WB~~ 1/500 - 1/2000 IHC~~1/200 - 1/1000 ICC~~N/A E~~ 1/10000
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.

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:15283675, PubMed:6208535, PubMed:6349683, PubMed:8168535). Biologically important in the destruction of opioid peptides such as Met- and Leu-enkephalins by cleavage of a Gly-Phe bond (PubMed:17101991, PubMed:6349683). Catalyzes cleavage of bradykinin, substance P and neurotensin peptides (PubMed:6208535). Able to cleave angiotensin-1, angiotensin-2 and angiotensin 1-9 (PubMed:15283675, PubMed:6349683). 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

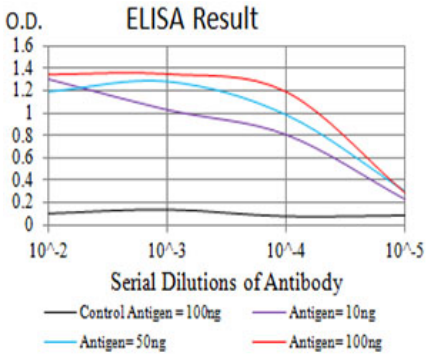


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

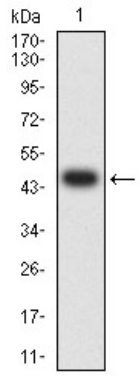


Figure 2:Western blot analysis using CD10 mAb against human CD10 (AA: extra 549-750) recombinant protein. (Expected MW is 48.8 kDa)

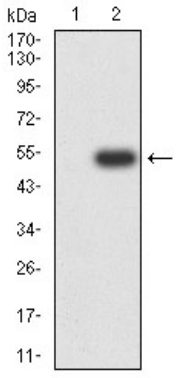
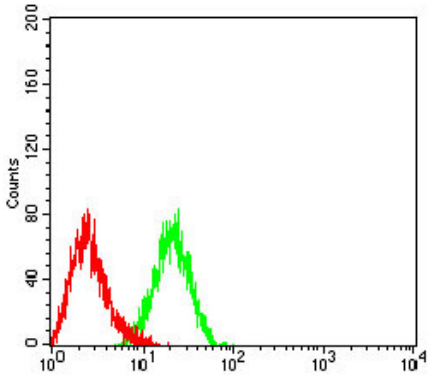


Figure 3:Western blot analysis using CD10 mAb against HEK293 (1) and CD10 (AA: extra 549-750)-hIgGFc transfected HEK293 (2) cell lysate.

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



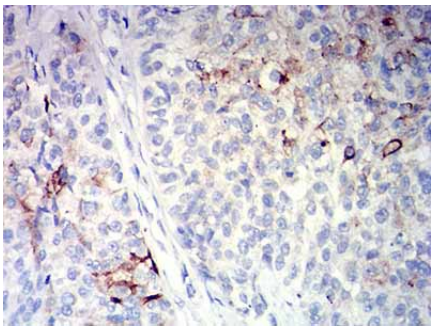


Figure 5:Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using CD10 mouse mAb with DAB staining.

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