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10-7560: Monoclonal Antibody to CD10 (Clone: ABM4A52)

Clonality :	Monoclonal
Clone Name :	ABM4A52
Application :	IHC,FACS,WB
Reactivity :	Human
Gene :	MME
Gene ID :	4311
Uniprot ID :	P08473
Format :	Purified
Alternative Name :	MME,EPN
Isotype :	Mouse IgG2b Kappa
Immunogen Information :	A partial length recombinant CD10 protein (amino acids 282-496) was used as the immunogen for this antibody.

Description

CD10, also known as membrane metalloendopeptidase, neutral endopeptidase, neprilysin and common acute lymphoblastic leukaemia antigen (CALLA), is a zinc-dependent metalloendoprotease that cleaves signaling peptides. It is widely expressed in various normal tissues and in epithelial, stromal or both components of various malignancies. CD10 is a marker for intestinal epithelial brush border. It is also present in normal bile ducts and gallbladder epithelia but is absent in cholangiocarcinomas. It is con-sidered as the prototype of this family of membrane-bound, zinc-dependent endopeptidases, which regulate the physiological action of various peptides by lowering their extracellular concentration available for receptor binding. CD10 is also known to be an amyloid b-peptide (Ab) degrading enzyme. Polymorphisms in the CD10 gene increase the risk for Alzheimers disease. Outside the nervous system, it is present on the surface of neutrophils and regulates their activation by degradation of inflammatory peptides.

Product Info

Amount :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Western blot analysis: 0.5-1 µg/ml; Immunohistochemical analysis: 5-10 µg/ml, FACS: 0.5-2 µg/10^6 cells

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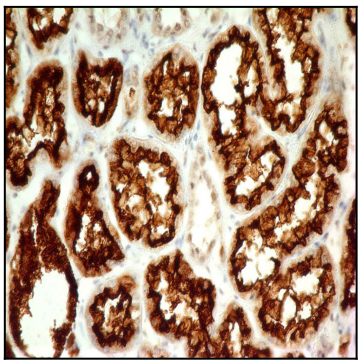


Fig-1: Immunohistochemical analysis of CD10 in human Renal CellCarcinoma tissue using CD10 antibody (Clone: ABM4A52) at 5 µg/ml.

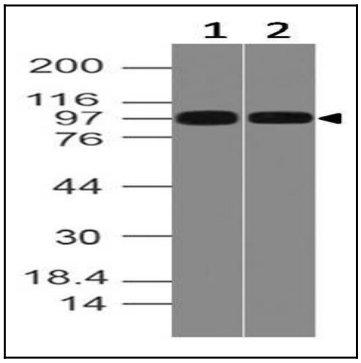


Fig-2: Western blot analysis of CD10. Anti-CD10 antibody (Clone: ABM4A52) was tested at 0.5 µg/ml on Jurkat and Ramos lysates.

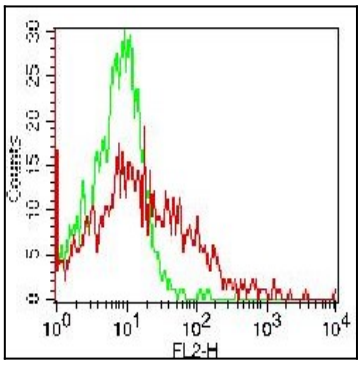


Fig-3: Cell surface flow analysis of CD10 (10-7560) in PBMC using 0.5 µg/10^6 cells of CD10 antibody (Clone: ABM4A52). Green represents isotype control (ABEOMICS); red represents anti-CD10 antibody. Goat anti-Mouse PE conjugate was used as secondary.

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