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CD10 (Membrane Metalloendopeptidase) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone FR4D11]
Catalog # AH11842

Specification

CD10 (Membrane Metalloendopeptidase) Antibody - With BSA and Azide - Product Information

Application	**,3,4,**
Primary Accession	P08473
Other Accession	4311, 307734
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse / IgG1, kappa**
Calculated MW	**100kDa KDa**

CD10 (Membrane Metalloendopeptidase) Antibody - With BSA and Azide - Additional Information

Gene ID 4311

Other Names
Neprilysin, 3.4.24.11, Atriopeptidase, Common acute lymphocytic leukemia antigen, CALLA, Enkephalinase, Neutral endopeptidase 24.11, NEP, Neutral endopeptidase, Skin fibroblast elastase, SFE, CD10, MME, EPN

Storage
Store at 2 to 8°C.Antibody is stable for 24 months.

Precautions
CD10 (Membrane Metalloendopeptidase) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

CD10 (Membrane Metalloendopeptidase) Antibody - With BSA and Azide - 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

CD10 (Membrane Metalloendopeptidase) Antibody - With BSA and Azide - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CD10 (Membrane Metalloendopeptidase) Antibody - With BSA and Azide - Images

CD10 (Membrane Metalloendopeptidase) Antibody - With BSA and Azide - Background

Recognizes a 100kDa glycoprotein, identified as CD10, also known as Common Acute Lymphocytic Leukemia Antigen (CALLA). It is a cell surface enzyme with neutral metalloendopeptidase activity, which inactivates a variety of biologically active peptides. CD10 is expressed on the cells of lymphoblastic, Burkittā€™s, and follicular germinal center lymphomas, and on cells from patients with chronic myelocytic leukemia (CML). It is also expressed on the surface of normal early lymphoid progenitor cells, immature B cells within adult bone marrow and germinal center B cells within lymphoid tissue. CD10 is also present on breast myoepithelial cells, bile canaliculi, fibroblasts, with especially high expression on the brush border of kidney and gut epithelial cells.

CD10 (Membrane Metalloendopeptidase) Antibody - With BSA and Azide - References

Brown, B. et al., J. Natl. Canc. Inst, 55: 1281-1289 (1975). | Tran-Paterson, R. et al., Blood, 76: 775-782 (1990) | Doerken, B. et al., in Knapp, W. et. al. (eds)., Leucocyte Typing IV, Oxford Univ. Press, pp 33-34. | Lavabre-Bertrand, T., et. al., Cytometry, 18: 209-217 (1994). | Guerin S; et al. Cellular Immunology, 1997 Jan 10, 175(1):85-91. | Guerin S; et al. Faseb Journal, 1997 Apr, 11(5):376-81