

**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	<a href="#">P08473</a>
Other Accession	<a href="#">4311</a> , <a href="#">307734</a>
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**

Nepriylsin, 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](http://www.uniprot.org/citations/15283675)), PubMed: [6208535](http://www.uniprot.org/citations/6208535), PubMed: [6349683](http://www.uniprot.org/citations/6349683), PubMed: [8168535](http://www.uniprot.org/citations/8168535)). Biologically important in the destruction of opioid peptides such as Met- and Leu-enkephalins by cleavage of a Gly-Phe bond (PubMed: [17101991](http://www.uniprot.org/citations/17101991), PubMed: [6349683](http://www.uniprot.org/citations/6349683)). 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 (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 Cytometry](#)
- [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, Burkitt'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