

**Product Name: CD10 (15I14) Rabbit Monoclonal Antibody**  
**Catalog #: AMRe08178**

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## Summary

<b>Production Name</b>	CD10 (15I14) Rabbit Monoclonal Antibody
<b>Description</b>	Rabbit Monoclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ELISA
<b>Reactivity</b>	Human,Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	MME Atriopeptidase; CALLA; CD10; CD10 antigen;Enkephalinase; EPN; Membrane metallo endopeptidase (neutral endopeptidase, enkephalinase, CALLA, CD10); CALLA CD10;
<b>Alternative Names</b>	NEP; Nepriylisin; Neutral endopeptidase;
<b>Gene ID</b>	4311.0
<b>SwissProt ID</b>	P08473.

## Application

<b>Dilution Ratio</b>	WB 1:500-1:2000
<b>Molecular Weight</b>	86kDa

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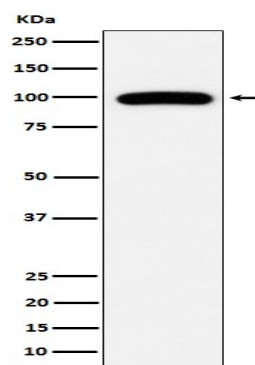
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## Background

CD10 is a transmembrane type II molecule and functions as a metallo-peptidase requiring zinc. Specifically, CD10 cleaves 1-3 amino-terminal amino acids from peptides with a preference for neutral amino acids (valine, iso-leucine, phenylalanine, leucine or alanine). Involved in the degradation of atrial natriuretic factor (ANF). 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:[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)). Able to cleave angiotensin-1, angiotensin-2 and angiotensin 1-9 (PubMed:[15283675](http://www.uniprot.org/citations/15283675)). Involved in the degradation of atrial natriuretic factor (ANF) and brain natriuretic factor (BNP(1-32)) (PubMed:[2531377](http://www.uniprot.org/citations/2531377)), PubMed:[2972276](http://www.uniprot.org/citations/2972276)), PubMed:[16254193](http://www.uniprot.org/citations/16254193)). Displays UV- inducible elastase activity toward skin preelastic and elastic fibers (PubMed:[20876573](http://www.uniprot.org/citations/20876573)).

## Research Area

## Image Data



Western blot analysis of CD10 expression in Ramos cell lysate.

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**Note**

For research use only.