

CD10/Nepriylsin (E9Z2W) Rabbit mAb

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 100	Source/Isotype: Rabbit IgG	UniProt ID: #P08473	Entrez-Gene Id: 4311
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. *Do not aliquot the antibody.*

Specificity/Sensitivity

CD10/Nepriylsin (E9Z2W) Rabbit mAb recognizes endogenous levels of total CD10/Nepriylsin protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant human CD10/Nepriylsin protein.

Background

CD10, also known as Nepriylsin, common acute lymphoblastic leukemia antigen (CALLA), or neutral endopeptidase (NEP), is a zinc-dependent transmembrane metallo-endopeptidase. CD10 cleaves peptides at the N-terminal side of hydrophobic amino acid residues and deactivates a variety of signaling peptides (1,2). CD10 was shown to be one of the markers for a natural killer cell-restricted progenitor in fetal and adult tissues (3). Studies also suggest CD10 as a phenotypic marker to distinguish mature neutrophils from immature neutrophils in patients with inflammation (2). In addition, CD10⁺GPR77⁺ carcinoma-associated fibroblasts (CAFs) promote tumor formation and chemoresistance (4).

Background References

1. Feng, Z. et al. (2017) *Cancer Res* 77, 401-11.
2. Marini, O. et al. (2017) *Blood* 129, 1343-56.
3. Renoux, V.M. et al. (2015) *Immunity* 43, 394-407.
4. Su, S. et al. (2018) *Cell* 172, 841-856.e16.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human

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