Product datasheet

Anti-CD10/MME Antibody

Catalog Number: *PB9058*

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Basic Information

Product Name	Anti-CD10/MME Antibody
Gene Name	MME
Source	Rabbit
Isotype	IgG
Species Reactivity	human, rat
Tested Application	WB, IHC, FCM
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	E.coli-derived human CD10 recombinant protein (Position: Y52-W750). Human CD10 shares 94% amino acid (aa) sequences identity with both mouse and rat CD10.
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	100KD
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Flow cytometry (FCM): 1-3 μg/1x10^6 cells (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 22 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

CD10, also known as membrane metallo-endopeptidase, neutral endopeptidase(NEP), Neprilysin, or common acute lymphoblastic leukemia antigen(CALLA), is a zinc-dependent metalloprotease enzyme that degrades a number of small secreted peptides, most notably theamyloid beta peptide whose abnormal misfolding and aggregation in neural tissue has been implicated as a cause of Alzheimer's disease. This gene is localized to human chromosome 3 by study of somatic cell hybrids and regionalized the location to 3q21-q27 by in situ hybridization. By cDNA transfection analysis, CD10 is confirmed as a functional neutral endopeptidase of the type that has previously been called enkephalinase. CD10 has also been called atriopeptidase. Atriopeptidase specifically degrades atrial natriuretic factor. A specific enzyme inhibitor was developed and reported that it had effects similar to those of low-dose ANF infusion. These effects include diuresis, natriuresis, vasodilatation, and suppression of the renin-angiotensin-aldosterone system.

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Reference

Anti-CD10/MME Antibody被引用在2文献中。

Selected Validation Data

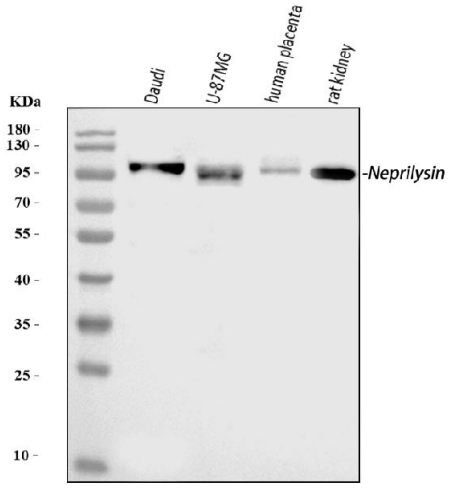

Figure 1. Western blot analysis of anti-CD10/Neprilysin antibody (PB9058). The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: human daudi whole cell lysates,
Lane 2: human U-87MG whole cell lysates,
Lane 3: human placenta tissue lysates,
Lane 4: rat kidney tissue lysates.
Use rabbit anti- CD10/Neprilysin 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for AOC1 at approximately 100KD. The expected band size for AOC1 is at 85KD.

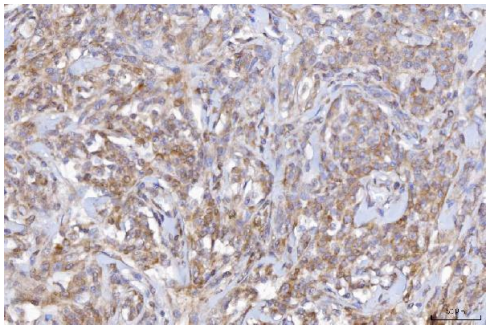

Figure 2. IHC analysis of CD10/Neprilysin antibody (PB9058). was detected in paraffin-embedded section of human lymphoma tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody . The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

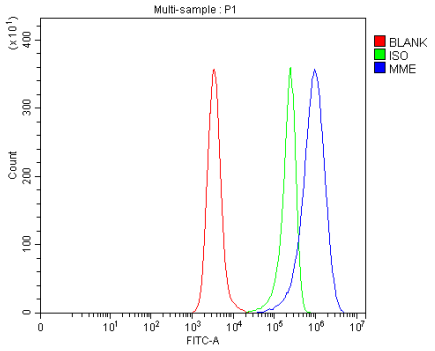

Figure 5. Flow cytometry analysis of daudi cell (1x106) DyLight 488 conjugated goat anti- rabbit IgG(blue) was used as secondary antibody.Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).