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Datasheet for ABIN3043879

anti-MME antibody (AA 52-750)

5 Images

2 Publications

Overview

Quantity:	100 µg
Target:	MME
Binding Specificity:	AA 52-750
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MME antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Neprilysin(MME) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
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.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Neprilysin(MME) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: membrane metallo-endopeptidase Protein Name: Neprilysin
Purification:	Immunogen affinity purified.

Target Details

Target: MME

Alternative Name: MME ([MME Products](#))

Target Type: Chemical

Background: 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 the amyloid 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.

Synonyms: Atriopeptidase antibody|CALLA antibody|CD10 antibody|CD10 antigen antibody|Common acute lymphocytic leukemia antigen antibody|DKFZp686O16152 antibody|EC 3.4.24.11 antibody|Enkephalinase antibody|EPN antibody|gp100 antibody|Membrane metallo endopeptidase (neutral endopeptidase, enkephalinase) antibody|Membrane metallo endopeptidase (neutral endopeptidase, enkephalinase, CALLA, CD10) antibody|Membrane metallo endopeptidase antibody|Membrane metallo endopeptidase variant 1 antibody|Membrane metallo endopeptidase variant 2 antibody|Membrane metalloendopeptidase antibody|Membrane metalloendopeptidase neutral endopeptidase enkephalinase antibody|Membrane metalloendopeptidase neutral endopeptidase enkephalinase CALLA CD10 antibody|Membrane metalloendopeptidase variant 1 antibody|Membrane metalloendopeptidase variant 2 antibody|MGC126681 antibody|MGC126707 antibody|MME antibody|NEP antibody|NEP_HUMAN antibody|Neprilysin antibody|Neutral endopeptidase 24.11 antibody|Neutral endopeptidase antibody|SFE antibody|Skin fibroblast elastase antibody

Gene ID: 4311

UniProt: [P08473](#)

Pathways: [RTK Signaling, Peptide Hormone Metabolism, Regulation of Systemic Arterial Blood Pressure by Hormones, Smooth Muscle Cell Migration](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, The detection limit for CD10 is approximately 0.25 ng/lane under reducing conditions.
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in: Yang, Gao, Wu, Yu, Li, Meng, Li, Yan, Jin: "Epigallocatechin-3-gallate attenuates neointimal hyperplasia in a rat model of carotid artery injury by inhibition of high mobility group box 1 expression." in: **Experimental and therapeutic medicine**, Vol. 14, Issue 3, pp. 1975-1982, (2017) ([PubMed](#)).

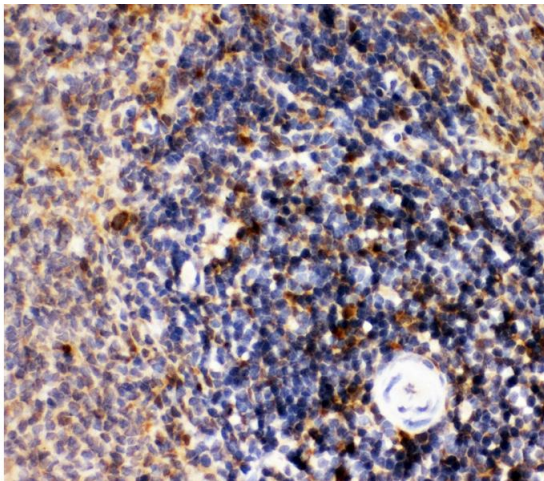
Yu, Yu, Liu, Yu, Liu, Liu, Su, Jiang, Chen: "Ethyl pyruvate attenuated coxsackievirus B3-induced acute viral myocarditis by suppression of HMGB1/RAGE/NF-KB pathway." in: **SpringerPlus**, Vol. 5, pp. 215, (2016) ([PubMed](#)).

Qin, Niu, Wang, Xu, Qiao, Gu: "Heparanase induced by advanced glycation end products (AGEs) promotes macrophage migration involving RAGE and PI3K/AKT pathway." in: **Cardiovascular diabetology**, Vol. 12, pp. 37, (2013) ([PubMed](#)).

Liu, Wang, Feng, Ma, Fu, Song, Jia, Ma: "Hypoglycemic and antioxidant activities of paeonol and its beneficial effect on diabetic encephalopathy in streptozotocin-induced diabetic rats." in: **Journal of medicinal food**, Vol. 16, Issue 7, pp. 577-86, (2013) ([PubMed](#)).

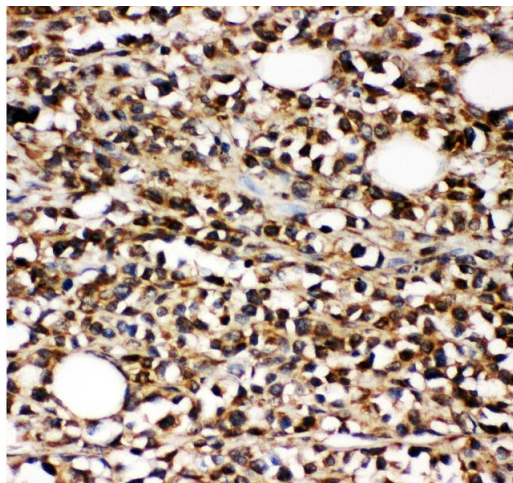
Wang, Zhang, Liu, Cui, Yang, Li, Du: "Tanshinone II A down-regulates HMGB1, RAGE, TLR4, NF-kappaB expression, ameliorates BBB permeability and endothelial cell function, and protects rat brains against focal ischemia." in: **Brain research**, Vol. 1321, pp. 143-51, (2010) ([PubMed](#)).

Validation report #300030 for Immunohistochemistry (IHC)



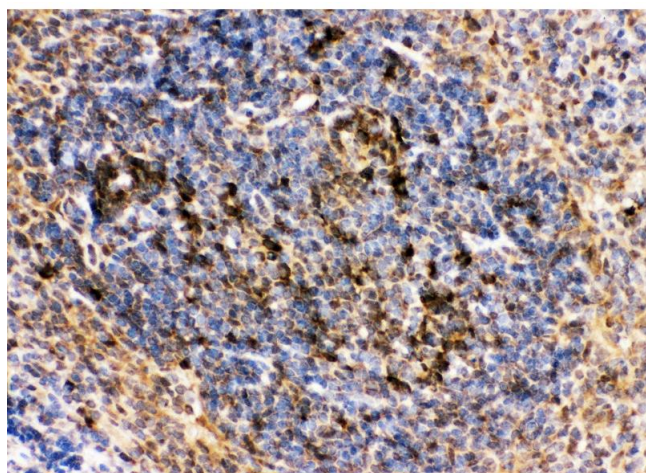
Immunohistochemistry

Image 1. Anti-CD10 Picoband antibody, IHC(P): Rat Spleen Tissue



Immunohistochemistry

Image 2. Anti-CD10 Picoband antibody, IHC(P): Human B lymphocyte Cancer Tissue



Immunohistochemistry

Image 3. Anti-CD10 Picoband antibody, IHC(P): Mouse Spleen Tissue

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3043879.