

Datasheet for ABIN3043232
anti-Myeloperoxidase antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	Myeloperoxidase (MPO)
Binding Specificity:	AA 714-728, C-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Myeloperoxidase antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Myeloperoxidase(MPO) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human MPO(714-728aa KNNIFMSNSYPRDFV), different from the related mouse and rat sequences by one amino acid.
Sequence:	KNNIFMSNSY PRDFV
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.
Characteristics:	Rabbit IgG polyclonal antibody for Myeloperoxidase(MPO) detection. Tested with WB, IHC-P in

Product Details

Human,Mouse,Rat.

Gene Name: Myeloperoxidase

Protein Name: Myeloperoxidase(MPO)

Purification: Immunogen affinity purified.

Target Details

Target: Myeloperoxidase (MPO)

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

Background: Myeloperoxidase(MPO) is a mammalian phagocyte hemoprotein though to primarily mediate host defense reactions. It is abundantly expressed in neutrophils and secreted during their activation. Myeloperoxidase is part of the host defense system of human polymorphonuclear leukocytes, responsible for microbicidal activity against a wide range of organisms. It is located in the nucleus as well as in the cytoplasm. Intranuclear MPO may help to protect DNA against damage resulting from oxygen radicals produced during myeloid cell maturation and function.

Synonyms: 84 kDa myeloperoxidase antibody|89 kDa myeloperoxidase antibody|EC 1.11.1.7 antibody|EC1.11.2.2 antibody|MPO antibody|Myeloperoxidase heavy chain antibody|Myeloperoxidase light chain antibody|PERM_HUMAN antibody

UniProt: [P05164](#)

Pathways: [Chromatin Binding](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse,
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. Predicted Species: Species predicted to be fit for the product based on sequence similarities. 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).

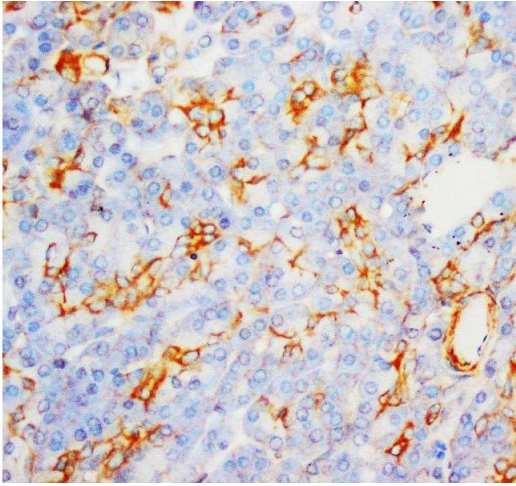
Restrictions: For Research Use only

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 Na ₂ HPO ₄ , 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES 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.
Expiry Date:	12 months

Publications

Product cited in:	<p>Wei, Kong, Li, Guan, Wang, Miao: "Nicotinamide mononucleotide attenuates brain injury after intracerebral hemorrhage by activating Nrf2/HO-1 signaling pathway." in: Scientific reports, Vol. 7, Issue 1, pp. 717, (2018) (PubMed).</p> <p>Xu, Zhang, He, Li, Gao, Liu: "Lactobacillus acidophilus alleviates pouchitis after ileal pouch-anal anastomosis in rats." in: World journal of gastroenterology, Vol. 23, Issue 26, pp. 4735-4743, (2018) (PubMed).</p> <p>Yu, Chen, Wang, Kuang, Liu, Zhang, Du: "Neuroprotective effect of kaempferol glycosides against brain injury and neuroinflammation by inhibiting the activation of NF-κB and STAT3 in transient focal stroke." in: PLoS ONE, Vol. 8, Issue 2, pp. e55839, (2013) (PubMed).</p>
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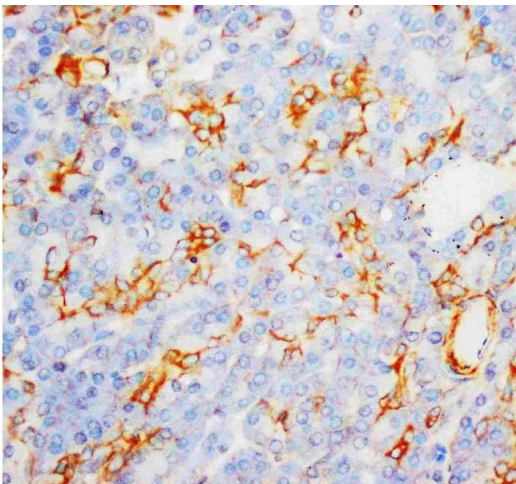
Immunohistochemistry

Image 1. Anti-Myeloperoxidase antibody, IHC(P) IHC(P):
Human Liver Cancer Tissue



Western Blotting

Image 2. Anti-Myeloperoxidase antibody, Western blotting
WB: Rat Brain Tissue Lysate



Immunohistochemistry

Image 3. Anti-MPO antibody, IHC(P): Human Liver Cancer
Tissue