

Mouse anti-Human Myeloperoxidase Monoclonal Antibody | anti-MPO antibody

Mouse anti Human Myeloperoxidase:Biotin

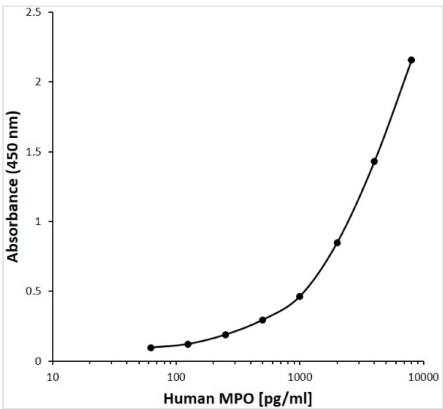
CATALOG # AAA50428	HOST Mouse	REACTIVITY Human	APPLICATIONS ELISA
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PRODUCT SYNONYMS

Myeloperoxidase; Monoclonal Antibody; Mouse anti Human Myeloperoxidase:Biotin; Myeloperoxidase antibody | D08-8G5; MYELOPEROXIDASE; anti-MPO antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	D08-8G5
Purity/Purification	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Form/Format	Phosphate buffered saline 0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin Purified IgG conjugated to Biotin - liquid
Concentration	IgG concentration 0.1mg/ml (varies by lot)
Applicable Applications for anti-MPO antibody	ELISA
Immunogen	Purified native human myeloperoxidase
Fusion Partners	Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0
Conjugation	Biotin
Preparation and Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20 degree C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8 degree C for short term use (up to 4 weeks) and store the remaining aliquots at -20 degree C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.



ELISA
Sandwich ELISA analysis of human MPO using Mouse anti Human myeloperoxidase as a capture reagent and biotinylated Mouse anti Human myeloperoxidase (AAA50428) as a detection reagent with purified native MPO as the antigen. Detection was perform

ADDITIONAL INFORMATION

Related Product Information for anti-MPO antibody	Mouse anti Human myeloperoxidase antibody, clone D08-8G5, recognizes myeloperoxidase (MPO), a heme-containing enzyme belonging to the XPO subfamily of peroxidases. It is largely expressed by neutrophils within azurophilic granules, but is also present in monocytes, macrophages and central nervous microglial cells (Strzepa et al. 2017). MPO is synthesized as a precursor protein that undergoes a series of modifications including cleavage and glycosylation to form the catalytically inactive MPO precursor. Subsequently an iron-heme is incorporated into the protein resulting in the catalytically active MPO (Hansson et al. 2006). In response to bacterial infection, neutrophils containing MPO fuse with the phagosome and when the common membrane is ruptured, MPO is release into the phagosome. MPO then uses H2O2 to generate the bactericidal compound, hypochlorous acid (HClO) (Strzepa et al. 2017). MPO deficiency is associated with a higher occurrence of severe infections and chronic inflammatory processes, although ~50% of individuals are asymptomatic (Antachopoulos 2010). The biotinylated Mouse anti Human myeloperoxidase antibody, clone D08-8G5 can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human myeloperoxidase antibody, clone D02-2A1 as the capture antibody.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	188658
NCBI GeneID	4353
UniProt Accession #	P05164; Q14862; Q4PJH5; Q9UCL7; A1L4B8
NCBI Official Full Name	myeloperoxidase
NCBI Official Synonym Full Names	myeloperoxidase
NCBI Official Symbol	MPO
NCBI Protein Information	myeloperoxidase
UniProt Protein Name	Myeloperoxidase
UniProt Gene Name	MPO
UniProt Synonym Gene Names	MPO
UniProt Entry Name	PERM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/myeloperoxidase-antibody-clone-d08-8g5-elisa/50428>