



MPO Monoclonal Antibody

Catalog No	YP-Ab-03412
Isotype	IgG
Reactivity	Human
Applications	WB;ELISA
Gene Name	MPO
Protein Name	Myeloperoxidase
Immunogen	Purified recombinant fragment of MPO (aa1-193) expressed in E. Coli.
Specificity	MPO Monoclonal Antibody detects endogenous levels of MPO protein.
Formulation	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	MPO; Myeloperoxidase; MPO
Observed Band	
Cell Pathway	Lysosome.
Tissue Specificity	Leukemia,Leukocyte,Liver,Plasma,Saliva,
Function	catalytic activity:Cl(-) + H(2)O(2) = HOCl + 2 H(2)O.,catalytic activity:Donor + H(2)O(2) = oxidized donor + 2 H(2)O.,cofactor:Binds 1 calcium ion per heterodimer.,cofactor:Binds 1 heme B (iron-protoporphyrin IX) group covalently per heterodimer.,disease:Defects in MPO are the cause of myeloperoxidase deficiency (MPD) [MIM:254600]. MPD is an autosomal recessive defect that results in disseminated candidiasis.,function:Part of the host defense system of polymorphonuclear leukocytes. It is responsible for microbicidal activity against a wide range of organisms. In the stimulated PMN, MPO catalyzes the production of hypohalous acids, primarily hypochlorous acid in physiologic situations, and other toxic intermediates that greatly enhance PMN microbicidal activity.,online information:MPO mutation db,online information:Myeloperoxidase entry,similarity:Belongs to the peroxidase family. XPO sub
Background	Myeloperoxidase (MPO) is a heme protein synthesized during myeloid differentiation that constitutes the major component of neutrophil azurophilic granules. Produced as a single chain precursor, myeloperoxidase is subsequently cleaved into a light and heavy chain. The mature myeloperoxidase is a tetramer



composed of 2 light chains and 2 heavy chains. This enzyme produces hypohalous acids central to the microbicidal activity of neutrophils. [provided by RefSeq, Nov 2014],

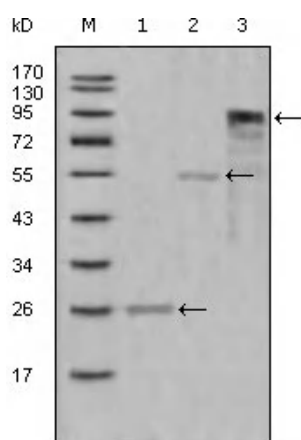
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis using MPO Monoclonal Antibody against truncated Trx-MPO recombinant protein (1),truncated MBP-MPO (aa1-193) recombinant protein (2) and truncated MPO(aa165-745)-hlgGFc transfected CHO-K1 cell lysate(3).