Immunoway
Best Tools for immunology Research

Myeloperoxidase(MPO) (ABT-MPO) mouse mAb (Ready to Use)

Catalog No :	YM6663R
Reactivity :	Human;
Applications :	IHC
Target :	MPO
Fields :	>>Drug metabolism - other enzymes;>>Phagosome;>>Neutrophil extracellular trap formation;>>Transcriptional misregulation in cancer;>>Acute myeloid leukemia
Gene Name :	MPO
Protein Name :	Myeloperoxidase(MPO)
Human Gene Id :	4353
Human Swiss Prot No :	P05164
Immunogen :	Synthesized peptide derived from human Myeloperoxidase(MPO) AA range: 350-450
Specificity :	The antibody can specifically recognize human Myeloperoxidase protein.
Formulation :	The prediluted ready-to-use antibody is diluted in phosphate buffer saline containing stabilizing protein and 0.05% Proclin 300
Source :	Mouse, Monoclonal/IgG2a, kappa
Dilution :	Ready to use for IHC
Purification :	The antibody was affinity-purified from ascites by affinity-chromatography using specific immunogen.
Storage Stability :	2°C to 8°C/1 year
Background :	Myeloperoxidase (MPO) is a heme protein synthesized during myeloid

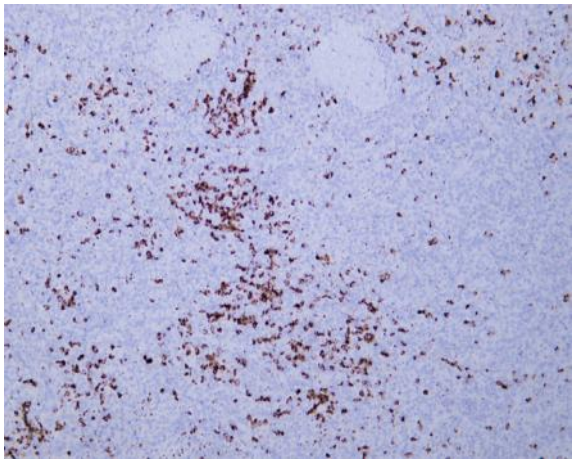
differentiation that constitutes the major component of neutrophil azurophilic granules. Produced as a single chain precursor, myeloperoxidase is subsequently cleaved into a light and heavy chain. The mature myeloperoxidase is a tetramer composed of 2 light chains and 2 heavy chains. This enzyme produces hypohalous acids central to the microbicidal activity of neutrophils. [provided by RefSeq, Nov 2014],

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

Subcellular Location : Cytoplasmic

Expression : Leukemia,Leukocyte,Liver,Plasma,Saliva,

Products Images



Human spleen tissue was stained with Anti-Myeloperoxidase (ABT-MPO) Antibody