Immunoway
Best Tools for immunology Research

Cleaved-MPO 89k (A49) Polyclonal Antibody

Catalog No :	YC0100
Reactivity :	Human;Rat;Mouse;
Applications :	WB;ELISA
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
Human Gene Id :	4353
Human Swiss Prot No :	P05164
Mouse Swiss Prot No :	P11247
Immunogen :	Synthesized peptide derived from Cleaved-MPO 89k (A49) . at AA range: 40-120
Specificity :	Cleaved-MPO 89k (A49) Polyclonal Antibody detects endogenous levels of fragment of activated MPO 89k protein resulting from cleavage adjacent to A49.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 89kD

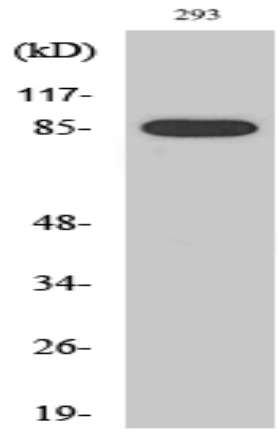
Background : Myeloperoxidase (MPO) is a heme protein synthesized during myeloid differentiation that constitutes the major component of neutrophil azurophilic granules. Produced as a single chain precursor, myeloperoxidase is subsequently cleaved into a light and heavy chain. The mature myeloperoxidase 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 : Lysosome.

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

Products Images



Western Blot analysis of various cells using Cleaved-MPO 89k (A49) Polyclonal Antibody