

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:

Mouse Swiss Prot

No:

Immunogen: Synthesized peptide derived from Cleaved-MPO 89k (A49) . at AA range:

40-120

P05164

P11247

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) = HOCI + 2H(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

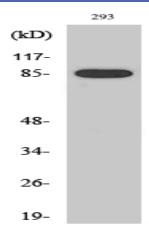
entry, similarity: Belongs to the peroxidase family. XPO sub

Subcellular Location:

Lysosome.

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

Products Images



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