PERM (light chain, Cleaved-Gly278) mouse mAb

Catalog No	BYmab-15065
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	MPO
Protein Name	PERM (light chain, Cleaved-Gly278)
Immunogen	Synthesized peptide derived from human PERM (light chain, Cleaved-Gly278)
Specificity	This antibody detects endogenous levels of Human PERM (light chain, Cleaved-Gly278, protein was cleaved amino acid sequence between 278-279)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Myeloperoxidase (MPO;EC 1.11.2.2) [Cleaved into: Myeloperoxidase; 89 kDa myeloperoxidase; 84 kDa myeloperoxidase; Myeloperoxidase light chain; Myeloperoxidase heavy chain]
Observed Band	12 84 89kD
Cell Pathway	Lysosome.
Tissue Specificity	
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.

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