ARG43748
anti-MPO / Myeloperoxidase antibody [MPO/33R]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Recombinant Rabbit Monoclonal antibody [MPO/33R] recognizes MPO / Myeloperoxidase
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Monoclonal
Clone	MPO/33R
Isotype	IgG
Target Name	MPO / Myeloperoxidase
Species	Human
Immunogen	Synthetic peptide within aa. 150-250 of Human MPO / Myeloperoxidase.
Conjugation	Un-conjugated
Alternate Names	MPO; Myeloperoxidase; EC 1.11.2.2

Application Instructions

Application table

Application	Dilution
IHC-P	1 - 2 µg/ml
WB	1 - 5 µg/ml

Application Note: IHC-P: Antigen Retrieval: Heat mediation was performed in boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control	Human spleen
Observed Size	60 kDa

Properties

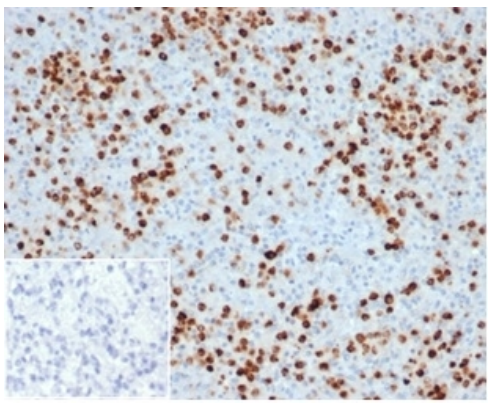
Form	Liquid
Purification	Purification with Protein A/G affinity.
Buffer	PBS, 0.05% Sodium azide and 0.1 mg/ml BSA.
Preservative	0.05% Sodium azide
Stabilizer	0.1 mg/ml BSA
Concentration	0.2 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	MPO
Gene Full Name	myeloperoxidase
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	Myeloperoxidase (MPO): 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. [UniProt]
Highlight	Related products: MPO antibodies; MPO ELISA Kits; MPO Duos / Panels; Anti-Rabbit IgG secondary antibodies; Related news: Exploring Antiviral Immune Response
Research Area	Inflammatory Cell Marker antibody; Neurophil Marker antibody
Calculated Mw	60 kDa, 84 kDa, 89 kDa
Cellular Localization	Lysosome. [UniProt]

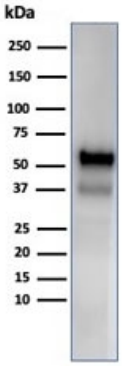
Images



ARG43748 anti-MPO / Myeloperoxidase antibody [MPO/33R] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human spleen tissue. Antigen Retrieval: Boil tissue section in 10 mM Tris with 1 mM EDTA (pH 9.0) for 20 min, followed by cooling at RT. The tissue section was stained with ARG43748 anti-MPO / Myeloperoxidase antibody [MPO/33R].

Negative control inset: PBS instead of primary antibody to control for secondary binding.



ARG43748 anti-MPO / Myeloperoxidase antibody [MPO/33R] WB image

Western blot: Human spleen lysate stained with ARG43748 anti-MPO / Myeloperoxidase antibody [MPO/33R].