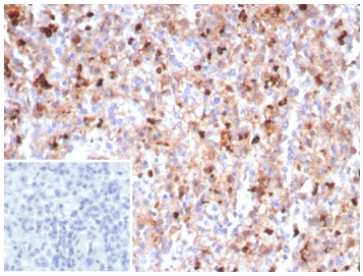
MPO Antibody Recombinant Rabbit MAb MPO/8290R / Myeloperoxidase Antibody [clone MPO/8290R] (V4528)

Catalog No.	Formulation	Size
V4528-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4528-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4528SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

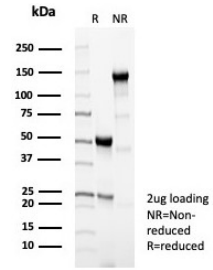
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	MPO/8290R
Purity	Protein A/G affinity
UniProt	P05164
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This MPO antibody is available for research use only.



MPO Antibody Recombinant Rabbit MAb MPO/8290R / Myeloperoxidase Antibody. Immunohistochemistry analysis of MPO Antibody Recombinant Rabbit MAb MPO/8290R in FFPE human spleen tissue. Cytoplasmic brown staining identifies Myeloperoxidase / MPO-positive myeloid cells within splenic tissue, while surrounding cells remain negative. The inset shows a negative control in which PBS was used in place of the primary antibody. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 minutes followed by cooling prior to staining.



SDS-PAGE analysis of purified, BSA-free MPO Antibody Recombinant Rabbit MAb MPO/8290R as confirmation of integrity and purity.

Description

Myeloperoxidase (MPO) is a heme-containing peroxidase enzyme encoded by the MPO gene and is one of the most abundant proteins in the azurophilic granules of neutrophils. MPO Antibody Recombinant Rabbit MAb MPO/8290R recognizes this important innate immune enzyme and supports detection of Myeloperoxidase / MPO in studies of inflammation, neutrophil biology, and myeloid cell function. MPO catalyzes the production of reactive oxidant species such as hypochlorous acid during the respiratory burst, contributing to antimicrobial defense against engulfed pathogens.

Myeloperoxidase antibody, also referred to as MPO antibody or myeloid peroxidase antibody in the literature, detects a granule-associated enzyme primarily expressed in neutrophils, with additional expression in monocytes and certain immature myeloid precursors. Because MPO expression is strongly associated with granulocytic lineage cells, it is widely used as a marker for identifying neutrophil-rich inflammatory infiltrates and myeloid cell populations in biological samples. MPO Antibody Recombinant Rabbit MAb MPO/8290R is therefore relevant for research examining innate immune responses and inflammatory cell recruitment.

Within neutrophils, MPO is stored in cytoplasmic azurophilic granules and released during activation and degranulation. The enzyme contributes not only to microbial killing but also to broader inflammatory signaling and oxidative tissue responses. MPO-derived oxidants can modify proteins, lipids, and nucleic acids, linking MPO activity to both host defense and tissue injury in chronic inflammatory states. Because of this biology, MPO is commonly studied in cardiovascular disease, autoimmune disorders, infection, and tumor-associated inflammation.

MPO Antibody Recombinant Rabbit MAb MPO/8290R supports analysis of Myeloperoxidase / MPO expression in research applications focused on neutrophil infiltration, myeloid differentiation, and inflammatory disease mechanisms. Detection of MPO can provide insight into the presence, localization, and activity of granulocytic cells in normal and pathological tissues. This recombinant rabbit monoclonal antibody provides a defined reagent for studies of immune cell function and inflammation.

Explore our Myeloperoxidase Antibody / Neutrophil Marker Antibody page for additional validation data and applications involving neutrophil identification, myeloid lineage analysis, and innate immune cell detection.

Application Notes

Optimal dilution of the MPO Antibody Recombinant Rabbit MAb MPO/8290R should be determined by the researcher.

Immunogen

A recombinant fragment of human MPO protein was used as the immunogen for the MPO antibody.

Storage

Aliquot the MPO antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

Myeloperoxidase antibody, MPO antibody, Myeloid peroxidase antibody, Neutrophil myeloperoxidase antibody

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