

**bs-4943R****[ Primary Antibody ]****MPO Rabbit pAb****Bioss**  
**ANTIBODIES**

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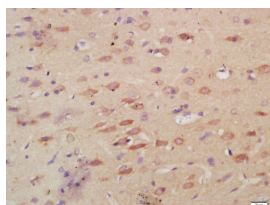
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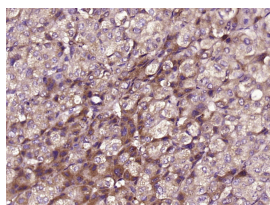
400-901-9800

**— DATASHEET —**

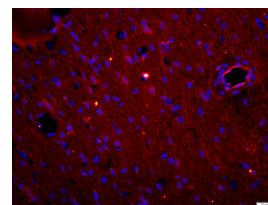
<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 4353 <b>Target:</b> MPO <b>Immunogen:</b> KLH conjugated synthetic peptide derived from human Myeloperoxidase heavy chain: 678-745/745. <b>Purification:</b> affinity purified by Protein A <b>Concentration:</b> 1mg/ml <b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. <b>Background:</b> 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]	<b>Isotype:</b> IgG <b>SWISS:</b> P05164	<b>Applications:</b> IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) ICC/IF (1:100-500) <b>Reactivity:</b> Human, Mouse (predicted: Rat, Rabbit, Dog, GuineaPig, Horse) <b>Predicted MW.:</b> 84 kDa <b>Subcellular Location:</b> Cytoplasm
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**— VALIDATION IMAGES —**

Tissue/cell: mouse brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-MPO Polyclonal Antibody, Unconjugated(bs-4943R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (Human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MPO) Polyclonal Antibody, Unconjugated (bs-4943R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: mouse brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-MPO Polyclonal Antibody, Unconjugated(bs-4943R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(bs-0295G-Cy3) used at 1:200 dilution for 40 minutes at 37°C. DAPI(5ug/ml, blue, C-0033) was used to stain the cell nuclei

**— SELECTED CITATIONS —**

- **[IF=11.53]** Ye, Buqing. et al. Induction of functional neutrophils from mouse fibroblasts by thymidine through enhancement of Tet3 activity. Cell Mol Immunol. 2022 Mar;;1-15 IF ;E.Coli. 35301470
- **[IF=5.6]** Yaxi Zhou. et al. Silkworm pupa protein peptide improved DSS-induced colitis in C57BL/6 mice through the MAPK/NF-κB signaling pathway. J FUNCT FOODS. 2023 Nov;110:105852 IHC ;Mouse. 10.1016/j.jff.2023.105852
- **[IF=5.7]** Yang Li. et al. Deciphering hub genes and immune landscapes related to neutrophil extracellular traps in rheumatoid arthritis: insights from integrated bioinformatics analyses and experiments. FRONTIERS IN IMMUNOLOGY. 2025

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Jan 8:15:1521634. IF ;Human. 39845946

- **[IF=5.595]** Chen B et al. A self-organized actomyosin drives multiple intercellular junction disruption and directly promotes neutrophil recruitment in lipopolysaccharide-induced acute lung injury. FASEB J. 2018 Jun 7:fj201701506RR. ICC ;Human. 29879372
- **[IF=4.755]** Bae Ju-Eun. et al. Effects of erythropoietin on osteoblast in the tooth extraction socket in mice periodontitis model. FRONT PHYSIOL. 2022 Oct;0:2117 IHC ;Mouse. 36277197