

bs-23549R**[Primary Antibody]**

www.bioss.com.cn

sales@bioss.com.cn

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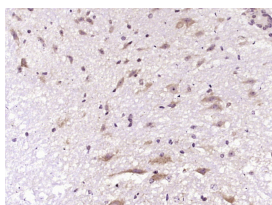
400-901-9800

Neutrophil Elastase Rabbit pAb

— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500)
Clonality: Polyclonal		Reactivity: Mouse (predicted: Rat)
GeneID: 1991	SWISS: P08246	
Target: Neutrophil Elastase		
Immunogen: KLH conjugated synthetic peptide derived from human Neutrophil Elastase: 51-150/265.		
Purification: affinity purified by Protein A		Predicted MW.: 26 kDa
Concentration: 1mg/ml		Subcellular Location: Extracellular matrix, Cytoplasm
Storage: 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.		
Background: Elastases form a subfamily of serine proteases that hydrolyze many proteins in addition to elastin. Humans have six elastase genes which encode the structurally similar proteins. The product of this gene hydrolyzes proteins within specialized neutrophil lysosomes, called azurophil granules, as well as proteins of the extracellular matrix following the protein's release from activated neutrophils. The enzyme may play a role in degenerative and inflammatory diseases by its proteolysis of collagen-IV and elastin of the extracellular matrix. This protein degrades the outer membrane protein A (OmpA) of E. coli as well as the virulence factors of such bacteria as Shigella, Salmonella and Yersinia. Mutations in this gene are associated with cyclic neutropenia and severe congenital neutropenia (SCN). This gene is clustered with other serine protease gene family members, azurocidin 1 and proteinase 3 genes, at chromosome 19pter. All 3 genes are expressed coordinately and their protein products are packaged together into azurophil granules during neutrophil differentiation. [provided by RefSeq, May 2009].		

— VALIDATION IMAGES —



Paraformaldehyde-fixed, paraffin embedded (mouse spinal tissue); 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 (ELNE) Polyclonal Antibody, Unconjugated (bs-23549R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

— SELECTED CITATIONS —

- **[IF=8.8]** Shelby K. Reid. et al. Recombinant human DNase treatment mitigates extracellular trap mediated damage and

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

- improves long-term recovery after spinal cord injury in male mice. BRAIN BEHAV IMMUN. 2025 Aug;128:456 IF ;Mouse. 40268066
- **[IF=5.187]** Kayo Yoshida. et al. Extracellular vesicles of *P. gingivalis*-infected macrophages induce lung injury. Bba-Mol Basis Dis. 2021 Nov;1867:166236 IHC ;Mouse. 34389473
 - **[IF=4.8]** Shun Li. et al. Deficiency of hasB accelerated the clearance of *Streptococcus equi* subsp. *Zooepidemicus* through gasdermin d-dependent neutrophil extracellular traps. INT IMMUNOPHARMACOL. 2024 Oct;140:112829 IF ;Mouse. 39083933
 - **[IF=4.4]** Muñoz-Caro Tamara. et al. Fasciola hepatica soluble antigens (FhAg) induce ovine PMN innate immune reactions and NET formation in vitro and in vivo. VET RES. 2023 Dec;54(1):1-13 IF ;Sheep. 37953317
 - **[IF=3.2]** Mayo Higashihara. et al. Nucleic acids and collagen can attenuate ovariectomy-induced degeneration of fibers in the abdominal aortic wall of female rat. PharmaNutrition. 2023 Oct;;100360 IHC ;Rat. 10.1016/j.phanu.2023.100360