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Rabbit Anti-Neutrophil Elastase antibody

SL6982R

Product Name:	Neutrophil Elastase
Chinese Name:	中性粒细胞弹性蛋白酶ELANE抗体
Alias:	Bone Marrow Serine Protease; ELA 2; ELA2; ELANE; Elastase 2; Elastase-2; Elastase 2 neutrophil; Elastase neutrophil expressed; Elastase-2; ELNE_HUMAN; GE antibody Granulocyte derived elastase; HLE; HNE; Human leukocyte elastase; Leukocyte elastase; Leukocyte Elastase Precursor; Medullasin; NE; Neutrophil elastase; Neutrophill elastase; PMN E; PMN Elastase; Polymorphonuclear elastase; SCN1; Serine protease; SERP1.
文献引用 PubMed :	**Specific References(5)**|SL6982R has been referenced in 5 publications. **[IF=1.53]**Jeffery, Unity, et al. "Dogs Cast NETs too: Canine neutrophil extracellular traps in health and immune-mediated hemolytic anemia." Veterinary Immunology and Immunopathology (2015).**Dog**. PubMed:26574161 **[IF=5.23]**Arecco, N., et al. "Elastase levels and activity are increased in dystrophic muscle and impair myoblast cell survival, proliferation and differentiation."Scientific Reports 6 (2016): 24708.**IHC-P, WB;Mouse**. PubMed:27241590 **[IF=2.26]**Maekawa, Toshihiro, et al. "Prophylactic Effect of Lactobacillus pentosus strain S-PT84 on Candida Infection and Gastric Inflammation in a Murine Gastrointestinal Candidiasis Model [Errata]." Medical mycology journal 57.4 (2016): E81-E92.**IHC-P;Mouse**. PubMed:27904074 **[IF=2.35]**Li, Guofu, et al. "The neutrophil elastase inhibitor, sivelestat, attenuates

	sepsis-related kidney injury in rats." International Journal of Molecular Medicine 38.3 (2016): 767-775.**WB;Rat**. PubMed:27430552 **[IF=4.22]**Krishnan, Subramanian, et al. "Serotype O18 avian pathogenic and neonatal meningitis Escherichia coli strains employ similar pathogenic strategies for the onset of meningitis." Virulence 6.8 (2015): 777-786.**IHC-P;Mouse**. PubMed:26407066
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,
Applications:	WB=1:500-2000ELISA=1:500-1000Flow-Cyt=1μg/Test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	26kDa
Cellular localization:	cytoplasmicExtracellular matrix
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Neutrophil Elastase/ELANE:101-200/267
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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]. **Function:**

Modifies the functions of natural killer cells, monocytes and granulocytes. Inhibits C5a-dependent neutrophil enzyme release and chemotaxis.

Subunit:
Interacts with NOTCH2NL.

Tissue Specificity:
Bone marrow cells.

DISEASE:
Defects in ELANE are a cause of cyclic haematopoiesis (CH) [MIM:162800]; also known as cyclic neutropenia. CH is an autosomal dominant disease in which blood-cell production from the bone marrow oscillates with 21-day periodicity. Circulating neutrophils vary between almost normal numbers and zero. During intervals of neutropenia, affected individuals are at risk for opportunistic infection. Monocytes, platelets, lymphocytes and reticulocytes also cycle with the same frequency.
Defects in ELANE are the cause of neutropenia severe congenital autosomal dominant type 1 (SCN1) [MIM:202700]. SCN1 is a disorder of hematopoiesis characterized by a maturation arrest of granulopoiesis at the level of promyelocytes with peripheral blood absolute neutrophil counts below 0.5 x 10(9)/l and early onset of severe bacterial infections.

Similarity:
Belongs to the peptidase S1 family. Elastase subfamily. Contains 1 peptidase S1 domain.

SWISS:
P08246

Gene ID:
1991

Database links:

Entrez Gene: 1991Human

Entrez Gene: 50701Mouse

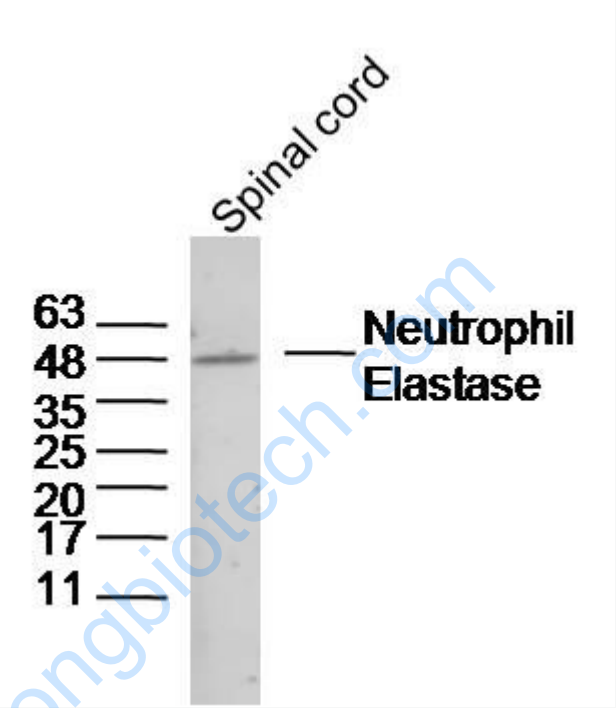
Omim: 130130Human

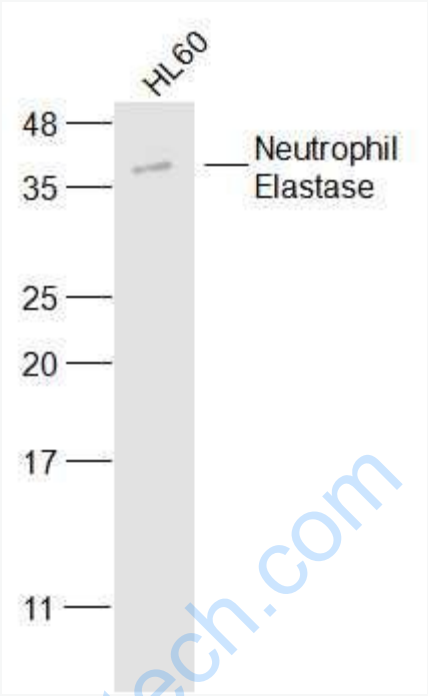
SwissProt: P08246Human

SwissProt: Q3UP87Mouse

Unigene: 99863Human

Unigene: 262194Mouse

	Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Sample: Spinal cord (Mouse) Lysate at 40 ug Primary: Anti-Neutrophil Elastase (SL6982R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 26 kD Observed band size: 48 kD



Sample:

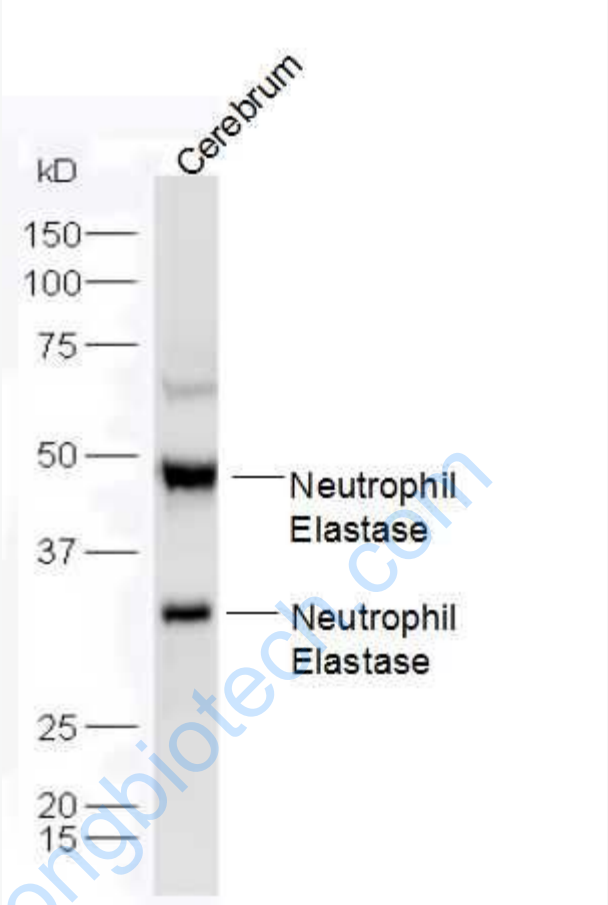
HL60(Human) Cell Lysate at 30 ug

Primary: Anti-Neutrophil Elastase (SL6982R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 26 kD

Observed band size: 41 kD



Sample:

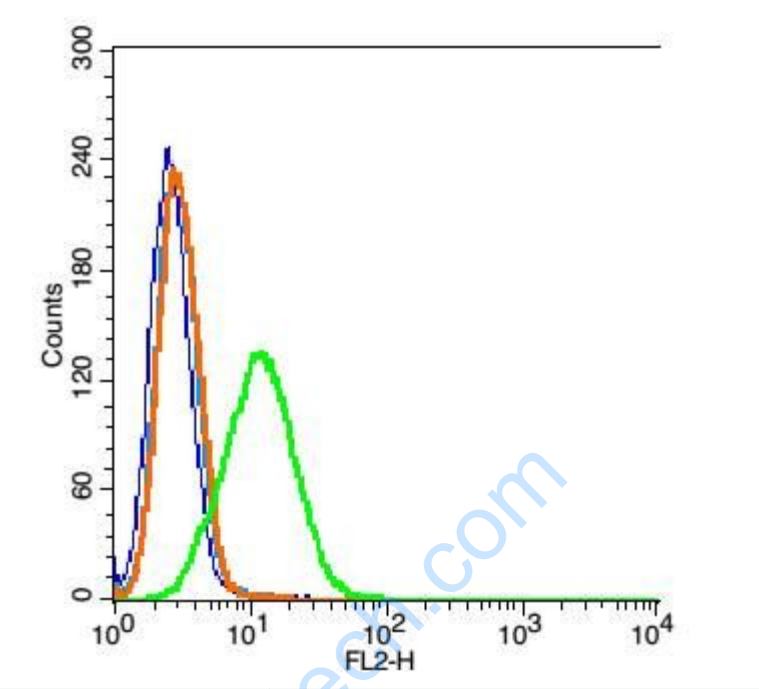
Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti-Neutrophil Elastase (SL6982R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 26 kD

Observed band size: 31/46 kD



Blank control: A549(blue), the cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice..

Isotype Control Antibody: Rabbit IgG(orange) ; Secondary Antibody: Goat anti-rabbit IgG-FITC(white blue), Dilution: 1:100 in 1 X PBS containing 0.5% BSA ;

Primary Antibody Dilution: 1μl in 100 μL1X PBS containing 0.5% BSA(green).