# ELNE Polyclonal Antibody

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| **Catalog No** | BYab-06801 |
| **Isotype** | IgG |
| **Reactivity** | Human;Mouse;Bovine;Bovine |
| **Applications** | WB;ELISA |
| **Gene Name** | ELANE ELA2 |
| **Protein Name** | Neutrophil elastase (EC 3.4.21.37) (Bone marrow serine protease) (Elastase-2) (Human leukocyte elastase) (HLE) (Medullasin) (PMN elastase) |
| **Immunogen** | Synthesized peptide derived from part region of human protein |
| **Specificity** | ELNE Polyclonal Antibody detects endogenous levels of protein. |
| **Formulation** | Liquid in PBS containing 50% glycerol, and 0.02% sodium azide. |
| **Source** | Polyclonal, Rabbit,IgG |
| **Purification** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Dilution** | WB 1:500-2000 ELISA 1:5000-20000 |
| **Concentration** | 1 mg/ml |
| **Purity** | ≥90% |
| **Storage Stability** | -20°C/1 year |
| **Synonyms** | |
| **Observed Band** | 29kD |
| **Cell Pathway** | Cytoplasmic vesicle, phagosome . Localized in phagolysosomes following ingestion of E.coli by neutrophils. . |
| **Tissue Specificity** | Bone marrow cells. Neutrophil (PubMed:10947984). |
| **Function** | catalytic activity:Hydrolysis of proteins, including elastin. Preferential cleavage: Val-\|-Xaa > Ala-\|-Xaa.,disease:Defects in ELA2 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.,disease:Defects in ELA2 are the cause of autosomal dominant severe congenital neutropenia type 1 (SCN1) [MIM:202700]. Severe congenital neutropenia is a heterogeneous disorder of hematopoiesis characterized by a maturation arrest of granulopoiesis at the level |

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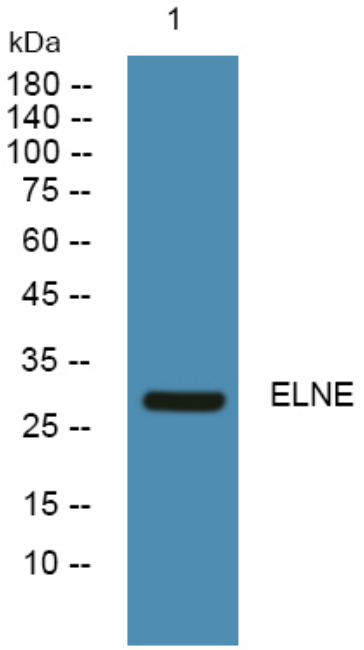
| | of promyelocytes with peripheral blood ab |
| **Background** | Elastases form a subfamily of serine proteases that hydrolyze many proteins in addition to elastin. Humans have six elastase genes which encode structurally similar proteins. The encoded preproprotein is proteolytically processed to generate the active protease. Following activation, this protease hydrolyzes proteins within specialized neutrophil lysosomes, called azurophil granules, as well as proteins of the extracellular matrix. The enzyme may play a role in degenerative and inflammatory diseases through proteolysis of collagen-IV and elastin. This protein also 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 present in a gene cluster on chromosome 19. [provided by RefSeq, Jan 2016 |
| **matters needing attention** | Avoid repeated freezing and thawing! |
| **Usage suggestions** | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel. |

## Products Images




Western blot analysis of lysates from PC12 cells, primary antibody was diluted at 1:1000, 4°over night