

Rabbit anti-Mouse, Rat Elastase/ELANE/ELA2 Polyclonal Antibody | anti-ELANE antibody

Anti-Elastase/ELANE/ELA2 Antibody

CATALOG # AAA46832	HOST Rabbit	REACTIVITY Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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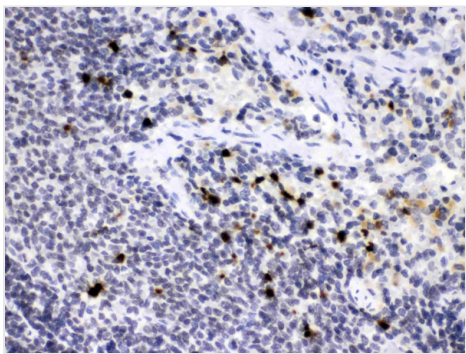
PRODUCT SYNONYMS

Elastase/ELANE/ELA2; Polyclonal Antibody; Anti-Elastase/ELANE/ELA2 Antibody; ELA2; ELANE; Elastase 2; Elastase-2; HLE; HNE; Leukocyte elastase; Medullasin; Neutrophil elastase; PMN E; PMN elastase; SCN1; P08246; elastase; neutrophil expressed; anti-ELANE antibody

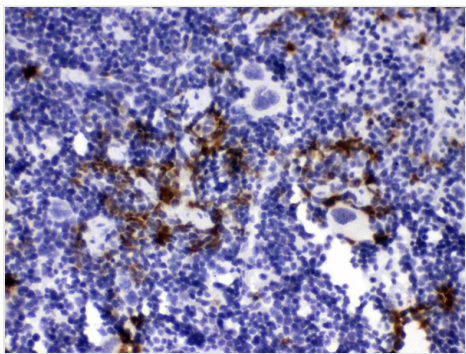
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	265
Applicable Applications for anti-ELANE antibody	IHC (Immunohistochemistry), WB (Western Blot)
Notes	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	E. coli-derived mouse Elastase/ELANE/ELA2 recombinant protein (Position: S27-N265). Mouse Elastase/ELANE/ELA2 shares 92% amino acid (aa) sequence identity with rat Elastase/ELANE/ELA2.
Preparation and Storage	Store at -20°C. After reconstitution, at 4°C. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

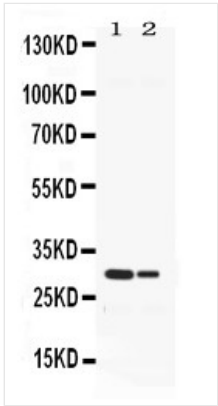
IMAGES



IHC (Immunohistochemisry)
Elastase/ELANE/ELA2 was detected in paraffin-embedded sections of rat spleen tissues using rabbit anti- Elastase/ELANE/ELA2 Antigen Affinity purified polyclonal antibody at 1 ug/mL. The immunohistochemical section was developed using SABC method.



IHC (Immunohiostchemistry)
Elastase/ELANE/ELA2 was detected in paraffin-embedded sections of mouse spleen tissues using rabbit anti- Elastase/ELANE/ELA2 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)
Western blot analysis of Elastase/ELANE/ELA2 expression in mouse bone extract (lane 1) and mouse spleen extract (lane 2). Elastase/ELANE/ELA2 at 29KD was detected using rabbit anti- Elastase/ELANE/ELA2 Antigen Affinity purified polyclonal antibody at 0.5ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-ELANE antibody	Neutrophil elastase is a serine protease of neutrophil and monocyte granules. Its key physiologic role is in innate host defense, but it can also participate in tissue remodeling and possesses secretagogue actions important to local inflammatory responses. 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. 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.
References	1. Ancliff, P. J., Gale, R. E., Liesner, R., Hann, I. M., Linch, D. C.Mutations in the ELA2 gene encoding neutrophil elastase are present in most patients with sporadic severe congenital neutropenia but only in some patients with the familial form of the disease. Blood 98: 2645-2650, 2001. 2. Bristow, C. L., Fiscus, S. A., Flood, P. M., Arnold, R. R. Inhibition of HIV-1 by modification of a host membrane protease. Int. Immun. 7: 239-249, 1995.

NCBI AND UNIPROT INFORMATION

NCBI GI #	114052444
NCBI GeneID	50701
NCBI Accession #	NP_056594.2

NCBI GenBank Nucleotide #	NM_015779.2
UniProt Accession #	Q3UP87 ; Q61515 ; A6H698
Molecular Weight	28,648 Da
NCBI Official Full Name	neutrophil elastase
NCBI Official Synonym Full Names	elastase, neutrophil expressed
NCBI Official Symbol	Elane
NCBI Official Synonym Symbols	NE; Ela2; F430011M15Rik
NCBI Protein Information	neutrophil elastase
UniProt Protein Name	Neutrophil elastase
UniProt Gene Name	Elane
UniProt Synonym Gene Names	Ela2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/elastase-elane-ela2-antibody-immunohistochemistry-western-blot-elisa/46832>