10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

HNE / Neutrophil Elastase Antibody
Sheep Polyclonal Antibody
Catalog # ALS13264

Specification

HNE / Neutrophil Elastase Antibody - Product Information

Application	**IHC-P, E, IE**
Primary Accession	P08246
Reactivity	**Human**
Host	**Sheep**
Clonality	**Polyclonal**
Calculated MW	**29kDa KDa**
Dilution	**IHC-P~~N/A** **E~~N/A** **IE~~N/A**

HNE / Neutrophil Elastase Antibody - Additional Information

Gene ID 1991

Other Names
Neutrophil elastase, 3.4.21.37, Bone marrow serine protease, Elastase-2, Human leukocyte elastase, HLE, Medullasin, PMN elastase, ELANE, ELA2

Target/Specificity
Specific for elastase.

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions
HNE / Neutrophil Elastase Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

HNE / Neutrophil Elastase Antibody - Protein Information

Name ELANE

Synonyms ELA2

Function
Serine protease that modifies the functions of natural killer cells, monocytes and granulocytes. Inhibits C5a-dependent neutrophil enzyme release and chemotaxis (PubMed:15140022). Promotes cleavage of GSDMB, thereby inhibiting pyroptosis (PubMed:36899106). Promotes blood coagulation (PubMed:20676107). Through the activation of the platelet fibrinogen receptor

integrin alpha-IIb/beta-3, potentiates platelet aggregation induced by a threshold concentration of cathepsin G (CTSG) (PubMed:25211214, PubMed:9111081). Cleaves and thus inactivates tissue factor pathway inhibitor (TFPI) (PubMed:20676107, PubMed:25211214). Capable of killing E.coli but not S.aureus in vitro; digests outer membrane protein A (ompA) in E.coli and K.pneumoniae (PubMed:10947984).

Cellular Location
Cytoplasmic vesicle, phagosome. Note=Localized in phagolysosomes following ingestion of E.coli by neutrophils

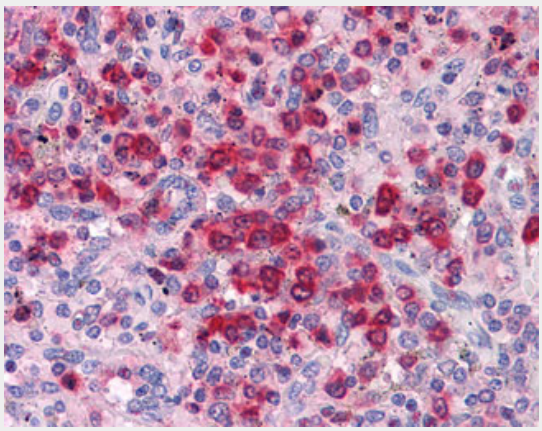
Tissue Location
Bone marrow cells. Neutrophil (PubMed:10947984).

HNE / Neutrophil Elastase Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HNE / Neutrophil Elastase Antibody - Images



Anti-ELANE / Neutrophil Elastase antibody IHC of human spleen.

HNE / Neutrophil Elastase Antibody - Background

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

HNE / Neutrophil Elastase Antibody - References

Nakamura H.,et al.Nucleic Acids Res. 15:9601-9601(1987).
Takahashi H.,et al.J. Biol. Chem. 263:14739-14747(1988).
Farley D.,et al.Biol. Chem. Hoppe-Seyler 370:737-744(1989).
Okano K.,et al.Biochem. Biophys. Res. Commun. 167:1326-1332(1990).
Okano K.,et al.J. Biochem. 102:13-16(1987).