

Mouse Neutrophil Elastase ELISA Kit | ELANE elisa kit

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CATALOG #
AAA263115

REACTIVITY
Mouse

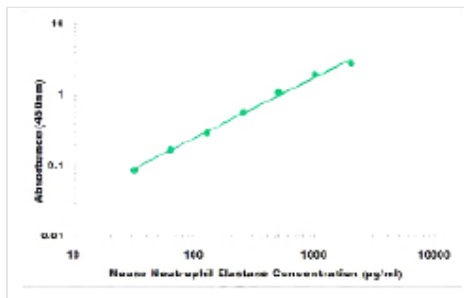
PRODUCT SYNONYMS

Neutrophil Elastase; Mouse Neutrophil Elastase ELISA Kit; ELA2; Neutrophil elastase; Bone marrow serine protease; Elastase-2; Human leukocyte elastase; HLE; Medullasin; PMN elastase; ELANE elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	The Mouse Neutrophil Elastase ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Mouse Neutrophil Elastase proteins within the range of 31.2 pg/ml - 2000 pg/ml.
Sequence Length	265
Samples	Cell Culture Supernates, Serum, Plasma
Sensitivity	<10 pg/ml
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ELANE elisa kit	Principle of the Assay: The Mouse Neutrophil Elastase ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Mouse Neutrophil Elastase in Cell Culture Supernates, Serum, Plasma. This assay employs an antibody specific for Mouse Neutrophil Elastase coated on a 96-well plate. Standards and samples are pipetted into the wells and Neutrophil Elastase present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Mouse Neutrophil Elastase antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of Neutrophil Elastase bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Background: 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.
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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
UniProt Entry Name	ELNE_MOUSE

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.