

Mouse Elastase/ELANE/ELA2 PicoKine ELISA Kit | Elane elisa kit

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CATALOG #
AAA46201

REACTIVITY
Mouse

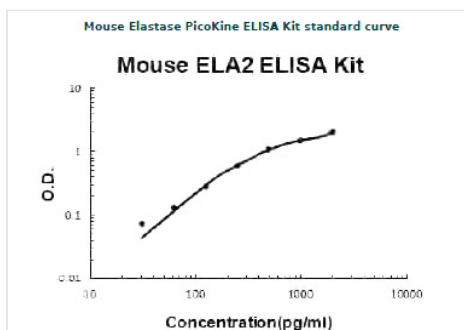
PRODUCT SYNONYMS

Elastase/ELANE/ELA2 PicoKine; Mouse Elastase/ELANE/ELA2 PicoKine ELISA Kit; Neutrophil elastase; Elastase; Elastase2; Elastase 2; Elastase-2; Ela2; Ela 2; Ela-2; Elane; Leukocyte elastase; elastase; neutrophil expressed; Elane elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant Mouse Elane
Sequence Length	265
Samples	Cell culture supernatants, cell lysates, serum and plasma (heparin, edta)
Detection Range	31.2 pg/ml - 2,000 pg/ml
Sensitivity	<10 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Elane elisa kit	Principle of the Assay: The Picokine™ Mouse Elane Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Mouse Elane with a 96-well strip plate that is pre-coated with antibody specific for Elane. The detection antibody is a biotinylated antibody specific for Elane. The capture antibody is a monoclonal antibody from rat and the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Mouse Elane with immunogen: Expression system for standard: NS0; Immunogen sequence: S27-R260. The kit is analytically validated with ready-to-use reagents. To measure Mouse Elane, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Mouse Elane in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Mouse Elane in the sample. Background/Introduction: 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.