

Datasheet for KOA0872**Mouse Elastase - ELANE - ELA2 ELISA Kit****Overview**

Description:	Mouse Elastase/ELANE/ELA2 AccuSignal ELISA Kit - KOA0872
Item No.:	KOA0872
Size:	1 Kit
Applications:	ELISA
Reactivity:	Mouse
Range:	31.2 pg/ml - 2000 pg/ml

Product Details

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 <i>E. coli</i> as well as the virulence factors of such bacteria as <i>Shigella</i> , <i>Salmonella</i> and <i>Yersinia</i> . 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.
Synonyms:	Elastase, Elastase2, Elastase 2, Elastase-2, Ela2, Ela 2, Ela-2, Elane, Leukocyte elastase, Neutrophil elastase
Detection Kit Type:	ELISA Kit
Detection Range:	31.2 pg/ml - 2000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	ELANE
Reactivity:	Mouse

Immunogen:	Expression system for standard: NSO; Immunogen sequence: S27-R260
Purity/Specificity:	Natural and recombinant mouse Elastase. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - Q3UP87 • NCBI - NP_056594.2 • GeneID - 50701 • KOA0872 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml mouse Elastase standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of mouse cell culture supernates, serum or plasma (heparin, EDTA) to each empty well. It is recommended that each mouse Elastase standard solution and each sample be measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

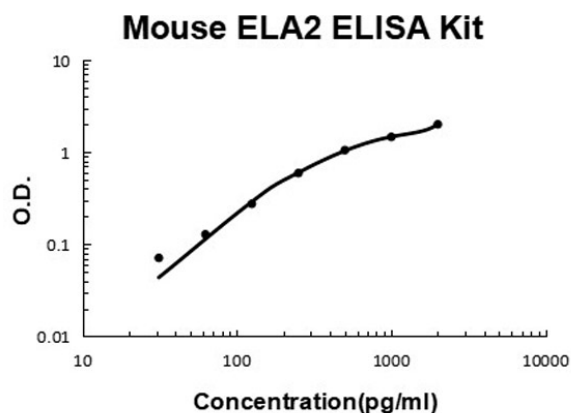
Formulation

Anticoagulant:	Heparin Sodium
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Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.
Expiration:	See kit insert for complete instructions.

Images



ELISA

Mouse Elastase ELISA Kit standard curve.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.