

Mouse Elastase/ELANE/ELA2 AccuSignal ELISA Kit - KOA0872

Code: KOA0872

Size: 1 Kit

Product Description: Mouse Elastase/ELANE/ELA2 AccuSignal ELISA Kit - KOA0872

PhysicalState:

Label	Unconjugated
Gene Name	Elastase
Species Reactivity	Mouse
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.
Synonyms	Elastase, Elastase2, Elastase 2, Elastase-2, Ela2, Ela 2, Ela-2, Elane, Leukocyte elastase, Neutrophil elastase
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.
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.
Purity And Specificity	Natural and recombinant mouse Elastase. There is no detectable cross-reactivity with other relevant proteins.
ELISA	31.2pg/ml-2000pg/ml
Expiration	See kit insert for complete instructions.
Immunogen	Expression system for standard: NSO; Immunogen sequence: S27-R260
Anti-Coagulant	Heparin Sodium

Related Products

100-4168	Anti-ELASTASE (RABBIT) Antibody - 100-4168
MB-008	10X PBS pH 7.2 (0.2 M Potassium Phosphate 1.5 M Sodium Chloride) - MB-008
MB-012	10X TBS pH 7.5 (1.0 M Tris HCl 1.5 M Sodium Chloride) - MB-012
MB-013	10X TTBS pH 7.5 (1.0 M Tris HCl 1.5 M Sodium Chloride 0.1% (w/v) Tween-20) - MB-013

Related Links

	UniProtKB - Q3UP87
	http://www.uniprot.org/uniprot/Q3UP87
NCBI - NP_056594.2	http://www.ncbi.nlm.nih.gov/protein/NP_056594.2
	GeneID - 50701

<http://www.ncbi.nlm.nih.gov/sites/entrez?db=gene&term=50701>

KOA0872 Protocol <http://www.rockland-inc.com/uploadedfiles/Support/KOA0872.pdf>

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.