

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Neutrophil Elastase/ELA2 in direct ELISAs and Western blots.
Source	Monoclonal Rat IgG _{2A} Clone # 887105
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Neutrophil Elastase/ELA2 Met1-Arg260 Accession # Q3UP87
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Neutrophil Elastase (ELA2), also known as Leukocyte Elastase, Bone marrow serine protease, Medullasin and ELANE, is a 25-30 kDa serine protease belonging to the peptidase S1 family. ELA2 is secreted by neutrophils during inflammation, it destroys bacteria and host tissue. ELA2 function is the degradation of many extracellular matrix macromolecules. ELA2 is localized to keratohyalin granules, where it was found to directly participate in pro-filaggrin processing. When expressed aberrantly, ELA2 can cause emphysema or emphysematous changes, it involves breakdown of the lung structure and increased airspaces. Alpha-1 Antitrypsin (Serp1 A1) and secretory leukocyte protease inhibitor (SLPI) have been shown to inhibit ELA2 activity.

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