

Datasheet for ABIN2192191
anti-ELANE antibody



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Overview

Quantity:	100 µg
Target:	ELANE
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ELANE antibody is un-conjugated
Application:	Immunoassay (IA)

Product Details

Sterility:	0.2 µm filtered
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Target Details

Target:	ELANE
Alternative Name:	Leukocyte Elastase (ELANE Products)
Background:	Leukocyte elastase, a major serine proteinase in man, is predominantly present in the azurophilic granules of neutrophils and monocytes. Elastase has a broad range of extracellular matrix substrates including elastin, proteoglycans, collagen and fibronectin. The action of elastase is controlled by serine proteinase inhibitors. Elastase, when released during inflammation, is rapidly bound by its two main inhibitors, alpha1- PI and alpha2-macroglobuline to form elastase-inhibitor complexes. In addition mucosa secretions may contain the locally secreted elastase inhibitors elafin/SKALP and SLPI. When secreted at sites of inflammation elastase can cause severe tissue damage. An important role has been suggested for human

Target Details

elastase in various inflammatory disorders, including pulmonary emphysema, sepsis, arthritis, nephritis and certain skin diseases. Elastase induces the production of IL-8 in human bronchial epithelial, a proces that occurs in part through TLR4.

Application Details

Application Notes: The antibody can be used in immuno assays. The antibody is not useful in immuno histology.

Restrictions: For Research Use only

Handling

Buffer: PBS, containing 0.02 % sodium azide and 0.1 % bovine serum albumin.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

Storage Comment: Product should be stored at 4 °C. Under recommended storage conditions, product is stable for one year.

Expiry Date: 12 months

Publications

Product cited in: Hiltermann, Lapperre, van Bree, Steerenberg, Brahim, Sont, Sterk, Hiemstra, Stolk: "Ozone-induced inflammation assessed in sputum and bronchial lavage fluid from asthmatics: a new noninvasive tool in epidemiologic studies on air pollution and asthma." in: **Free radical biology & medicine**, Vol. 27, Issue 11-12, pp. 1448-54, (2000) ([PubMed](#)).

Dentener, Francot, Hiemstra, Tool, Verhoeven, Vandenabeele, Buurman: "Bactericidal/permeability-increasing protein release in whole blood ex vivo: strong induction by lipopolysaccharide and tumor necrosis factor-alpha." in: **The Journal of infectious diseases**, Vol. 175, Issue 1, pp. 108-17, (1997) ([PubMed](#)).