

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name Elastase, Human, pAb

Catalog number	HP9027		
Lot number	-	Expiry date	-
Volume	1 ml	Amount	100 µg
Formulation	0.2 μm filtered in PBS+0.1%BSA+0.02%NaN3	Concentration	100 µg/ml
Host Species	Rabbit IgG	Conjugate	None
Endotoxin	N.A.	Purification	Protein G
Storage	4°C		

Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes						•		
No	•	•						
N.D.			•	•	•		•	•

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:10.

General Information					
Description	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 elastic 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-macroglobulir to form elastase-inhibitor complexes. In addition mucosa secretions may contain the locally secreted elastase inhibitor elafin/SKALP and SLPI. When secreted at sites of inflammation elastase can cause severe tissue damage. A important role has been suggested for human elastase in various inflammatory disorders, including pulmonal emphysema, sepsis, arthritis, nephritis and certain skin diseases. Elastase induces the production of IL-8 in huma bronchial epithelial, a proces that occurs in part through TLR4.				
References	 Dentener, M et al; Bacterial/permiability-increasing protein release in whole blood ex vivo: strong induction by lipopolysaccharide and tumor necrosis factor-alpha. J Infect Dis 1996, 175: 108 Hiltermann, J et al; Ozone-induced inflammation assessed in sputum and bronchial lavage fluid from asthmatics: a new noninvasive tool in epidemiologic studies on air pollution and asthma. Free Radic Biol Med 1999, 27: 1448 				
Storage&stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.				
Precautions	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.				

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC	
Robbert Zwinkels	

Date 13/03/2018

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.