

Hycult biotechnology

ELA2, Human pAb

Catalog No.	HP9027	Quantity:	100 µg
Description:	<p>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 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.</p>		
Concentration:	100 µg/ml		
Specificity:	Human ELA2		
Host:	Rabbit		
Isotype:	IgG		
Formulation:	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.02% sodium azide and 0.1% bovine serum albumin. Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.		
Applications	The antibody can be used in immuno assays. The antibody is not useful in immuno histology.		
Storage & Stability:	Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.		
References:	<ol style="list-style-type: none">1. 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: 1082. 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		
Also available:	HM2062: Monoclonal antibody against Human elafin/SKALP, clone TRAB2O HM2063: Monoclonal antibody against Human elafin/SKALP, clone TRAB2F HM2174: Monoclonal antibody against Human Elastase, clone 265-3K1 HP9025: Polyclonal antibody against Human elafin/SKALP		

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