

## POLYCLONAL ANTIBODY TO HUMAN LEUKOCYTE ELASTASE



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<b>Catalog nr</b>	HP9027 (lot number and expiry date are indicated on the label)
<b>Description</b>	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 process that occurs in part through TLR4.
<b>Species</b>	Rabbit IgG
<b>Formulation</b>	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.02% sodium azide and 0.1% bovine serum albumin.
<b>Application</b>	The antibody can be used in immuno assays. The antibody is <u>not</u> useful in immuno histology.
<b>Storage and stability</b>	Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.
<b>Precautions</b>	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 with the use of or derivation of this product.
<b>References</b>	<ol style="list-style-type: none"><li>1. Dentener, M et al; Bacterial/permeability-increasing protein release in whole blood ex vivo: strong induction by lipopolysaccharide and tumor necrosis factor-alpha. <i>J Infect Dis</i> 1996, 175: 108</li><li>2. 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. <i>Free Radic Biol Med</i> 1999, 27: 1448</li></ol>
<b>Also available</b>	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