

Product datasheet for **AM26361PU-N**

Neutrophil Elastase (ELANE) Mouse Monoclonal Antibody [Clone ID: 265-3K1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	265-3K1
Applications:	ELISA, WB
Recommended Dilution:	Immunoassays. Western blot: The typical starting working dilution is 1/50.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	The monoclonal antibody 265-3K1 recognizes Human Leukocyte Elastase.
Formulation:	PBS State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% BSA Preservative: 0.02% sodium azide
Concentration:	lot specific
Purification:	Protein G Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	elastase, neutrophil expressed
Database Link:	Entrez Gene 1991 Human P08246



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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 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.

Synonyms:

ELANE, ELA2, Neutrophil elastase, Elastase-2, PMN elastase, Bone marrow serine protease, Medullasin, Human leukocyte elastase, HLE