

ELANE monoclonal antibody, clone ELA10-103.2

Catalog # MAB2205 Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against native ELANE.
Immunogen	Native purified ELANE from human neutrophil.
Host	Mouse
Reactivity	Human
Form	Liquid
Isotype	IgG2b
Quality Control Testing	Antibody Reactive Against Native Purified Protein.
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Radioimmunoassay
- Enzyme Immunoassay

Gene Info — ELA2

Entrez GeneID [1991](#)

Gene Name	ELA2
Gene Alias	GE, HLE, HNE, NE, PMN-E
Gene Description	elastase 2, neutrophil
Omim ID	130130 162800 202700
Gene Ontology	Hyperlink
Gene Summary	<p>Elastases form a subfamily of serine proteases that hydrolyze many proteins in addition to elastin. Humans have six elastase genes which encode the structurally similar proteins. The product of this gene hydrolyzes proteins within specialized neutrophil lysosomes, called azurophil granules, as well as proteins of the extracellular matrix following the protein's release from activated neutrophils. The enzyme may play a role in degenerative and inflammatory diseases by its proteolysis of collagen-IV and elastin of the extracellular matrix. This protein degrades the outer membrane protein A (OmpA) of E. coli as well as the virulence factors of such bacteria as Shigella, Salmonella and Yersinia. Mutations in this gene are associated with cyclic neutropenia and severe congenital neutropenia (SCN). This gene is clustered with other serine protease gene family members, azurocidin 1 and proteinase 3 genes, at chromosome 19pter. All 3 genes are expressed coordinately and their protein products are packaged together into azurophil granules during neutrophil differentiation. [provided by RefSeq]</p>
Other Designations	bone marrow serine protease granulocyte-derived elastase leukocyte elastase medullasin polymorphonuclear elastase

Pathway

- [Systemic lupus erythematosus](#)

Disease

- [Chronic Disease](#)
- [Coronary Disease](#)
- [Genetic Predisposition to Disease](#)
- [Liver Cirrhosis](#)
- [Lung Neoplasms](#)
- [Myocardial Infarction](#)
- [Neutropenia](#)
- [Pulmonary Disease](#)