

ELANE monoclonal antibody, clone ELA10-101.5

Catalog # MAB2204

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 | IgG1 |
| 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](#)