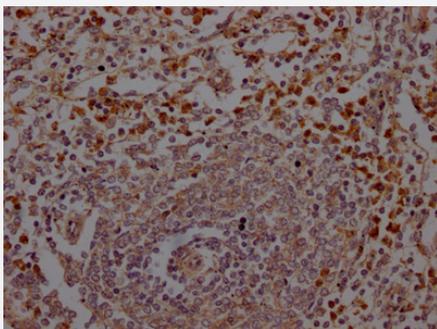


RecomAb™

ELANE recombinant monoclonal antibody, clone 2H12

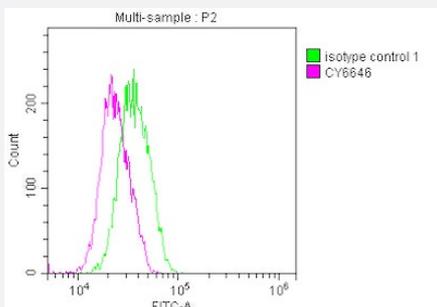
Catalog # RAB04050 Size 100 uL

Applications



Immunohistochemistry

Immunohistochemistry image of ELANE recombinant monoclonal antibody, clone 2H12 diluted at 1:100 and staining in paraffin-embedded human spleen tissue performed on a Leica Bond™ system.



Flow Cytometry

Overlay histogram showing Jurkat cells stained with ELANE recombinant monoclonal antibody, clone 2H12 (red line) at 1:50.

Specification

| | |
|----------------------------|---|
| Product Description | Rabbit recombinant monoclonal antibody raised against human ELANE. |
| Antibody Species | Rabbit |
| Immunogen | Original antibody is raised against recombinant protein corresponding to full length human ELANE. |
| Reactivity | Human |
| Form | Liquid |
| Purification | Affinity-chromatography |

| | |
|----------------------------|---|
| Isotype | IgG |
| Recommend Usage | ELISA Flow Cytometry (1:20-1:200) Immunohistochemistry (1:50-1:200) The optimal working dilution should be determined by the end user. |
| Storage Buffer | In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide) |
| Storage Instruction | Store at -20 °C or -80 °C. Aliquot to avoid repeated freezing and thawing. |
| Note | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |

Applications

- Immunohistochemistry

Immunohistochemistry image of ELANE recombinant monoclonal antibody, clone 2H12 diluted at 1:100 and staining in paraffin-embedded human spleen tissue performed on a Leica Bond™ system.

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Overlay histogram showing Jurkat cells stained with ELANE recombinant monoclonal antibody, clone 2H12 (red line) at 1:50.

Gene Info — ELA2

| | |
|---------------------------|--|
| Entrez GeneID | 1991 |
| Protein Accession# | P08246 |
| 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

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]

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](#)