CX Grade

ELA2 monoclonal antibody (M06J), clone 3B1

Catalog # H00001991-M06J Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant ELA2. This product is belong to Cell Culture Grade Antibody (CX Grade).
Immunogen	ELA2 (NP_001963, 168 a.a. ~ 267 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	VLQELNVTVVTSLCRRSNVCTLVRGRQAGVCFGDSGSPLVCNGLIHGIASFVRGGCASGLYPDAF APVAQFVNWIDSIIQRSEDNPCPHPRDPDPASRTH
Host	Mouse
Reactivity	Human
Preparation Method	Cell Culture Production
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- ELISA

Gene Info — ELA2

Entrez GeneID	1991
GeneBank Accession#	NM_001972

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Protein Accession#	NP_001963
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 thi s 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 coll agen-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 Y ersinia. Mutations in this gene are associated with cyclic neutropenia and severe congenital neutr openia (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 th eir 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|polymo rphonuclear elastase

Pathway

- Systemic lupus erythematosus

Disease

- Chronic Disease
- Coronary Disease
- Genetic Predisposition to Disease
- Liver Cirrhosis
- Lung Neoplasms
- Myocardial Infarction
- Neutropenia

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- Pulmonary Disease

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