Neutrophil elastase Antibody (F41911)

Catalog No.	Formulation	Size
F41911-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F41911-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P08246
Applications	Western Blot : 1:1000
Limitations	This Neutrophil elastase antibody is available for research use only.

Neutrophil elastase antibody western blot analysis in A2058 lysate. Predicted molecular weight: 29-35 kDa.

Description

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.

Application Notes

Titration of the Neutrophil elastase antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 13-39 from the human protein was used as the immunogen for this Neutrophil elastase antibody.

Storage

Aliquot the Neutrophil elastase antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.