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ARG40838
anti-Neutrophil Elastase antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Neutrophil Elastase
Tested Reactivity	Ms, Rat
Predict Reactivity	Hu
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Neutrophil Elastase
Species	Mouse
Immunogen	Recombinant protein corresponding to S27-N265 of Mouse Neutrophil Elastase.
Conjugation	Un-conjugated
Alternate Names	Neutrophil elastase; HNE; EC 3.4.21.37; Medullasin; NE; ELA2; GE; Bone marrow serine protease; SCN1; PMN-E; Human leukocyte elastase; HLE; Elastase-2; PMN elastase

Application Instructions

Application table

Application	Dilution
IHC-P	1:200 - 1:1000
WB	1:500 - 1:2000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

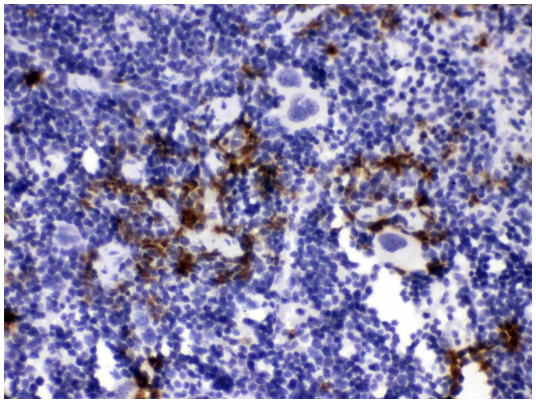
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na2HPO4, 0.9% NaCl, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

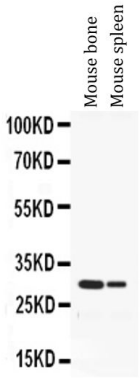
Gene Symbol	ELANE
Gene Full Name	elastase, neutrophil expressed
Background	Elastases form a subfamily of serine proteases that hydrolyze many proteins in addition to elastin. Humans have six elastase genes which encode the structurally similar proteins. The product of this gene hydrolyzes proteins within 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, May 2009]
Function	Modifies the functions of natural killer cells, monocytes and granulocytes. Inhibits C5a-dependent neutrophil enzyme release and chemotaxis. [UniProt]
Calculated Mw	29 kDa

Images



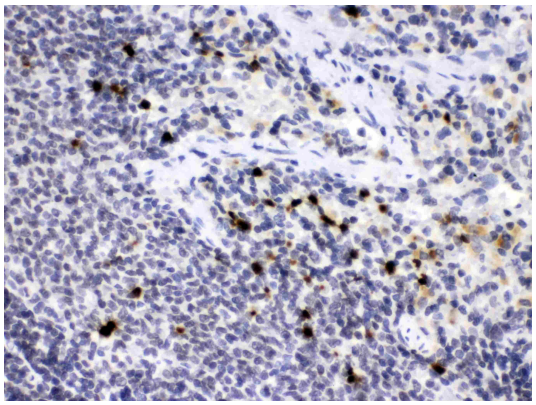
ARG40838 anti-Neutrophil Elastase antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse spleen tissue stained with ARG40838 anti-Neutrophil Elastase antibody at 1 µg/ml dilution.



ARG40838 anti-Neutrophil Elastase antibody WB image

Western blot: Mouse bone and Mouse spleen lysates stained with ARG40838 anti-Neutrophil Elastase antibody at 0.5 µg/ml dilution.



ARG40838 anti-Neutrophil Elastase antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat spleen tissue stained with ARG40838 anti-Neutrophil Elastase antibody at 1 µg/ml dilution.