



Product datasheet

Anti-Neutrophil Elastase antibody [NP57] ab254178

Recombinant

[8 References](#) [2 Images](#)

Overview

Product name	Anti-Neutrophil Elastase antibody [NP57]
Description	Mouse monoclonal [NP57] to Neutrophil Elastase
Host species	Mouse
Tested applications	Suitable for: ICC/IF Unsuitable for: IHC-P or WB
Species reactivity	Reacts with: Human
Immunogen	Full length native protein (purified) within Human Neutrophil Elastase. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support team to discuss your requirements. Database link: P08246  Run BLAST with  Run BLAST with
Positive control	ICC/IF: U-937 cells.
General notes	This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com . This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production For more information see here .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

Purity	Protein A purified
Clonality	Monoclonal
Clone number	NP57
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab254178 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 11.16 µg/ml.

Application notes Is unsuitable for IHC-P or WB.

Target

Function Modifies the functions of natural killer cells, monocytes and granulocytes. Inhibits C5a-dependent neutrophil enzyme release and chemotaxis.

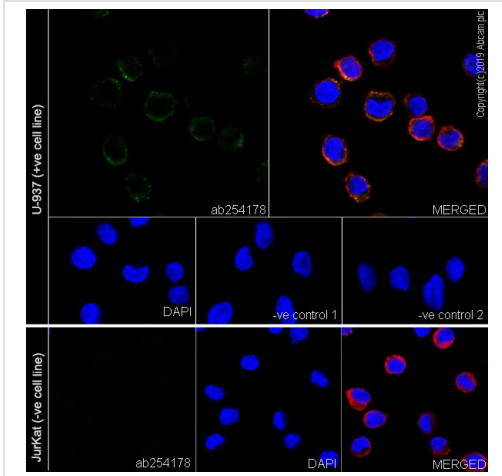
Tissue specificity Bone marrow cells.

Involvement in disease Defects in ELANE are a cause of cyclic haematopoiesis (CH) [MIM:162800]; also known as cyclic neutropenia. CH is an autosomal dominant disease in which blood-cell production from the bone marrow oscillates with 21-day periodicity. Circulating neutrophils vary between almost normal numbers and zero. During intervals of neutropenia, affected individuals are at risk for opportunistic infection. Monocytes, platelets, lymphocytes and reticulocytes also cycle with the same frequency.

Defects in ELANE are the cause of neutropenia severe congenital autosomal dominant type 1 (SCN1) [MIM:202700]. SCN1 is a disorder of hematopoiesis characterized by a maturation arrest of granulopoiesis at the level of promyelocytes with peripheral blood absolute neutrophil counts below $0.5 \times 10^9/l$ and early onset of severe bacterial infections.

Sequence similarities Belongs to the peptidase S1 family. Elastase subfamily.
Contains 1 peptidase S1 domain.

Images



Immunocytochemistry/ Immunofluorescence - Anti-Neutrophil Elastase antibody [NP57] (ab254178)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized U-937 (human histiocytic lymphoma monocyte) cells labeling Neutrophil Elastase with ab254178 at 11.16µg/ml, followed by Goat Anti-Mouse IgG (Alexa Fluor® 488) (**ab150113**) secondary antibody at 1/1000 dilution (green).

Confocal image showing membranous staining on U-937 cell line. The nuclear counterstain is DAPI (blue).

Tubulin is detected with **ab179504** Anti-beta IV Tubulin antibody - Microtubule Marker at 1/1000 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 594) (**ab150080**) secondary antibody at 1/1000 dilution (red).





The negative controls are as follows:

-ve control 1: ab254178 at 1/50 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 594) (**ab150080**) secondary antibody at 1/1000 dilution.

-ve control 2: **ab179504** at 1/200 dilution, followed by **ab150113** AlexaFluor®488 Goat anti-Mouse secondary at 1/1000 dilution.

Negative control: Jurkat □ PMID: 22564522.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-Neutrophil Elastase antibody [NP57] (ab254178)

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- Response to your inquiry within 24 hours

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