

# Neutrophil Elastase (ELANE) Rabbit mAb

Catalog No.: A8953 **Recombinant** **7 Publications**

## Basic Information

### Observed MW

35 kDa

### Calculated MW

29 kDa

### Category

Primary antibody

### Applications

WB,IP,ELISA

### Cross-Reactivity

Human

### CloneNo number

ARC1364

## Background

Elastases form a subfamily of serine proteases that hydrolyze many proteins in addition to elastin. Humans have six elastase genes which encode structurally similar proteins. The encoded preproprotein is proteolytically processed to generate the active protease. Following activation, this protease hydrolyzes proteins within specialized neutrophil lysosomes, called azurophil granules, as well as proteins of the extracellular matrix. The enzyme may play a role in degenerative and inflammatory diseases through proteolysis of collagen-IV and elastin. This protein also 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 present in a gene cluster on chromosome 19.

## Recommended Dilutions

**WB** 1:2000 - 1:10000

**IP** 0.5µg-4µg antibody for  
200µg-400µg extracts of  
whole cells

**ELISA** Recommended starting  
concentration is 1 µg/mL.  
Please optimize the  
concentration based on  
your specific assay  
requirements.

## Immunogen Information

### Gene ID

1991

### Swiss Prot

P08246

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

GE; NE; HLE; HNE; ELA2; SCN1; PMN-E; Neutrophil Elastase (ELANE)

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

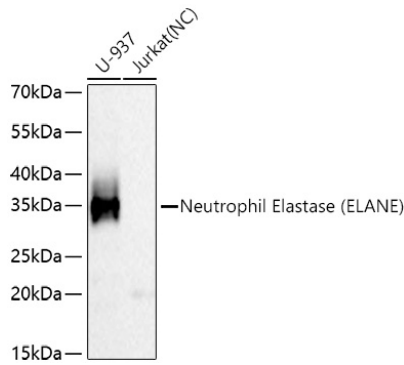
Affinity purification

### Storage

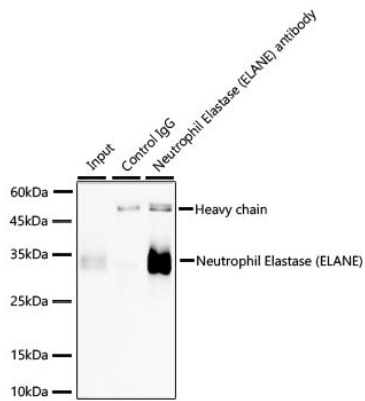
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

## Validation Data



Western blot analysis of various lysates using Neutrophil Elastase (ELANE) Rabbit mAb (A8953) at 1:5000 dilution incubated overnight at 4°C.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25 µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Negative control (NC): Jurkat.  
Exposure time: 20 s.



Immunoprecipitation of Neutrophil Elastase (ELANE) from 300 µg extracts of THP-1 cells was performed using 3 µg of Neutrophil Elastase (ELANE) Rabbit mAb (A8953). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1X Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Neutrophil Elastase (ELANE) Rabbit mAb (A8953) at a dilution of 1:500.