# Neutrophil Elastase (ELANE) Rabbit mAb

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Catalog No.: A8953 Recombinant 3 Publications

# **Basic Information**

### **Observed MW**

35kDa

#### **Calculated MW**

29kDa

### 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** 1:1000 - 1:6000

0.5μg-4μg antibody for IP 200µg-400µg extracts of

whole cells

Recommended starting **ELISA** 

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

# **Immunogen Information**

**Gene ID Swiss Prot** 1991 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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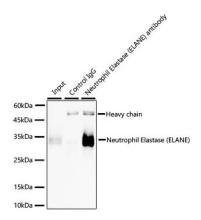
### **Product Information**

Source Isotype **Purification** Rabbit IgG Affinity purification

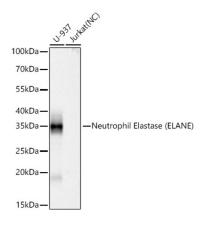
#### Storage

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.



Immunoprecipitation of Neutrophil Elastase (ELANE) from 300  $\mu$ g extracts of THP-1 cells was performed using 3  $\mu$ g 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.



Western blot analysis of various lysates using Neutrophil Elastase (ELANE) Rabbit mAb (A8953) at 1:1000 dilution incubated overnight at  $4^{\circ}$ 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.

 $\label{eq:Detection:ecl Basic Kit (RM00020).} Detection: ECL Basic Kit (RM00020).$ 

Negative control (NC): Jurkat

Exposure time: 5s.