

## Neutrophil Elastase Monoclonal Antibody

**CAB8953**

### Description

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This Neutrophil Elastase Monoclonal Antibody is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

### Product Information

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<b>SKU:</b>	CAB8953
<b>Contents:</b>	20 µL, 100 µL Bradford Reagent: 1 vial (2ml)
<b>Category:</b>	Monoclonal Antibody
<b>Synonyms:</b>	GE, NE, HLE, HNE, ELA2, SCN1, PMN-E, Neutrophil Elastase (ELANE)
<b>Clone:</b>	ARC1364
<b>Applications:</b>	<span style="background-color: red; color: white; padding: 2px 5px;">WB</span> <span style="background-color: blue; color: white; padding: 2px 5px;">IP</span> <span style="background-color: green; color: white; padding: 2px 5px;">ELISA</span>
<b>Conjugation:</b>	Unconjugated
<b>Reactivity:</b>	Human

### Antibody Data

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<b>Gene ID:</b>	1991
<b>Uniprot:</b>	AB_3717878
<b>Host Species:</b>	Rabbit
<b>Purification:</b>	Affinity purification
<b>Observed MW:</b>	35kDa
<b>Calculated MW:</b>	29kDa

## Preparation & Storage

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**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.

Store Bradford Reagent at Room Temperature for 1 Year.

**Positive Sample:** U-937, THP-1

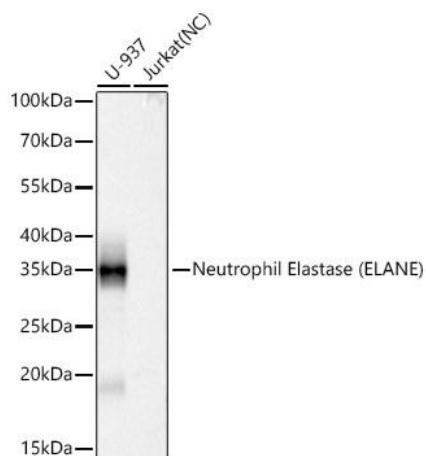
**Recommended Dilutions:**

<b>WB</b>	1:1000 - 1:6000
<b>IP</b>	0.5µg-4µg antibody for 200µg-400µg extracts of whole cells
<b>ELISA</b>	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

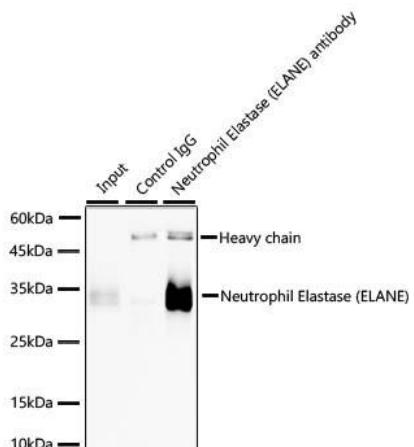
**Protein Quantification (Optional):** To quantify total protein levels, use the Bradford Reagent included in this kit. Visit <https://www.assaygenie.com/bradford-protein-assay-protocol/> to view the full protocol

## Validation Data

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Western blot analysis of various lysates using Neutrophil Elastase (ELANE) Rabbit mAb (CAB8953) at 1:1000 dilution incubated overnight at 4°C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Negative control (NC): Jurkat Exposure time: 5s.



Immunoprecipitation of Neutrophil Elastase (ELANE) from 300 µg extracts of THP-1 cells was performed using 3 µg of Neutrophil Elastase (ELANE) Rabbit mAb (CAB8953). Rabbit Control IgG (CABC005) 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 (CAB8953) at a dilution of 1:500.