

# Product Datasheet

## Neutrophil Elastase/ELA2 Antibody (950334) - Azide and BSA Free MAB9167

Unit Size: 100 ug

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

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

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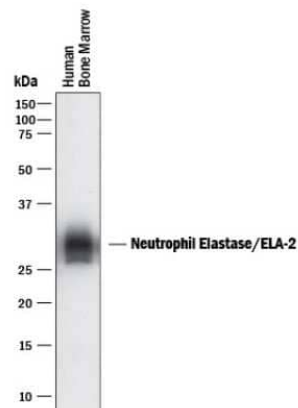
**MAB9167**

Neutrophil Elastase/ELA2 Antibody (950334) - Azide and BSA Free

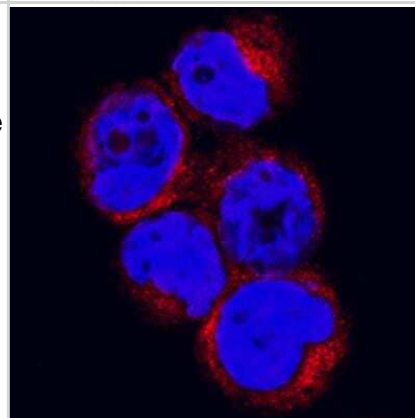
<b>Product Information</b>	
<b>Unit Size</b>	100 ug
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	950334
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	PBS
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	1991
<b>Gene Symbol</b>	ELANE
<b>Species</b>	Human
<b>Immunogen</b>	Partial recombinant human ELA2 protein (aa28-252)
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Flow Cytometry, Immunohistochemistry, CyTOF-ready, Immunocytochemistry
<b>Recommended Dilutions</b>	Western Blot, Flow Cytometry, Immunohistochemistry, Immunocytochemistry, CyTOF-ready
<b>Application Notes</b>	This antibody is Cytof ready.

## Images

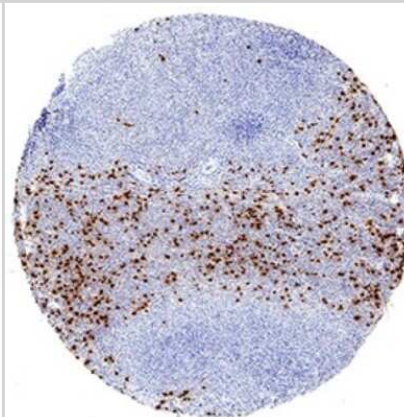
**Western Blot: Neutrophil Elastase/ELA2 Antibody (950334) - Azide and BSA Free [MAB9167] - Neutrophil Elastase/ELA2 Antibody (950334) [MAB9167] - Analysis of human bone marrow tissue lysate with 0.5 ug/ml of hELA-2 Monoclonal Antibody followed by HRP-conjugated Anti-Mouse IgG Antibody. A specific band was detected for hELA-2 at approximately 25-30 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.**



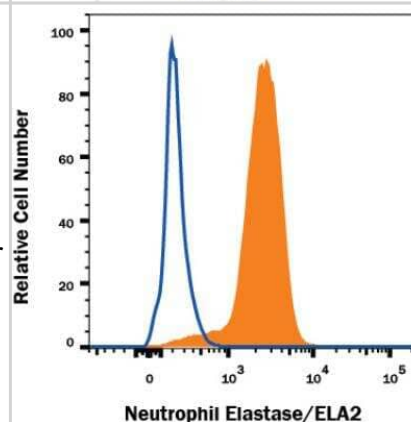
**Immunocytochemistry: Neutrophil Elastase/ELA2 Antibody (950334) - Azide Free [MAB9167] - Neutrophil Elastase/ELA2 was detected in immersion fixed THP-1 cell using Neutrophil Elastase/ELA2 Monoclonal Antibody at 8 ug/ml dilution. Cells were stained using Donkey anti-Mouse IgG Secondary Antibody [NL557] (red) and counterstained with DAPI (blue). Specific staining was localized to cytoplasmic.**



**Immunohistochemistry: Neutrophil Elastase/ELA2 Antibody (950334) [MAB9167] - ELA-2 was detected in immersion fixed paraffin-embedded sections of human lymphoma using ELA-2 Monoclonal Antibody at 5 ug/ml. Tissue was stained using Mouse IgG VisUCyte HRP Polymer Antibody (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in neutrophils .**



**Flow Cytometry: Neutrophil Elastase/ELA2 Antibody (950334) - Azide Free [MAB9167] - THP-1 human acute monocytic leukemia cell line treated with 3 uM monensin for 3 hours was stained with Mouse Anti-Human Neutrophil Elastase/ELA2 Monoclonal Antibody (Catalog # MAB9167, filled histogram) or isotype control antibody (Catalog # MAB002, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005).**



## Publications

Alexander E. Kostyunin, Tatiana V. Glushkova, Arseniy A. Lobov, Evgeny A. Ovcharenko, Bozhana R. Zainullina, Leo A. Bogdanov, Daria K. Shishkova, Victoria E. Markova, Maksim A. Asanov, Rinat A. Mukhamadiyarov, Elena A. Velikanova, Tatiana N. Akentyeva, Maria A. Rezvova, Alexander N. Stasev, Alexey V. Evtushenko, Leonid S. Barbarash, Anton G. Kutikhin Proteolytic Degradation Is a Major Contributor to Bioprosthetic Heart Valve Failure *Journal of the American Heart Association: Cardiovascular and Cerebrovascular Disease* 2022-12-24 [PMID: 36565196]

Kostyunin A, Glushkova T, Stasev A et al. Early Postoperative Immunothrombosis of Bioprosthetic Mitral Valve and Left Atrium: A Case Report *International journal of molecular sciences* 2022-06-16 [PMID: 35743174]

Teluguakula Narasaraju, Indira Neeli, Sheila L. Criswell, Amita Krishnappa, Wenzhao Meng, Vasuki Silva, Galyna Bila, Volodymyr Vovk, Zolotukhin Serhiy, Gary L. Bowlin, Nuala Meyer, Eline T. Luning Prak, Marko Radic, Rostyslav Bilyy, Viswanathan Natarajan Neutrophil Activity and Extracellular Matrix Degradation: Drivers of Lung Tissue Destruction in Fatal COVID-19 Cases and Implications for Long COVID Biomolecules 2024-02-17 [PMID: 38397474]





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to MAB9167**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP2-57576PEP	Neutrophil Elastase/ELA2 Recombinant Protein Antigen

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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