

# Product Datasheet

## SerpinB9 Antibody (7D8) [Alexa Fluor® 350] NB100-64359AF350

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NB100-64359AF350**

SerpineB9 Antibody (7D8) [Alexa Fluor® 350]

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C in the dark.
Clonality	Monoclonal
Clone	7D8
Preservative	0.05% Sodium Azide
Isotype	IgG1
Conjugate	Alexa Fluor 350
Purity	Protein G purified
Buffer	50mM Sodium Borate
Product Description	
Host	Mouse
Gene ID	5272
Gene Symbol	SERPINEB9
Species	Human, Mouse (Negative), Porcine (Negative)
Reactivity Notes	Reacts with Human. Does not react with Pig or Mouse.
Specificity/Sensitivity	NB100-64359 is specific for human PI-9 (proteinase inhibitor 9), also known as SerpinB9, a 42kDa intracellular nucleocytoplasmic serpin expressed in cytotoxic lymphocytes (CTLs), natural killer (NK) cells, monocyte-derived dendritic cells (DCs), and to a lesser extent in B cells and myeloid cells. Granzyme B (grB) is a serine protease highly expressed by CTLs and NK cells, which is endocytosed by virus-infected and malignant target cells. The subsequent release of grB from the endocytic vesicles into the cytoplasm of the target cells, triggers grB-mediated apoptosis, through cleavage of various cytoplasmic or nuclear proteins. PI-9, up-regulated in response to grB production and degranulation, has been identified as a potent inhibitor of Granzyme B-mediated apoptosis, providing a vital self-protection mechanism against the premature apoptosis of CTLs and NK cells by grB, which may escape into the cytoplasm of the effector cells themselves. Clone 7D8 detects a band of approximately 42kDa under reducing conditions. Clone 7D8 is suitable for use in indirect Immunofluorescence (2).
Immunogen	Recombinant PI-9 produced in P. pastoris

**Notes**

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**Product Application Details**

<b>Applications</b>	Western Blot, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen
<b>Application Notes</b>	Optimal dilution of this antibody should be experimentally determined.

**Images**

SerpinB9 Antibody (7D8) [Alexa Fluor® 350] [NB100-64359AF350] - Vial of Alexa Fluor 350 conjugated antibody. Alexa Fluor 350 is optimally excited at 346 nm by the UV laser (350 or 355 nm) and has an emission maximum of 442 nm.



Alexa Fluor® 350

LASER (nm)	FILTER
UV (350)	450/45
EXCITATION MAX (nm)	EMISSION MAX (nm)
346	442



### **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 NB100-64359AF350**

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NBP1-97005AF350	Mouse IgG1 Isotype Control (MG1) [Alexa Fluor® 350]
H00005272-Q01-10ug	Recombinant Human SerpinB9 GST (N-Term) Protein
210-TA-005	TNF-alpha [Unconjugated]
NBL1-15851	SerpinB9 Overexpression Lysate

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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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