

# Product Datasheet

## SerpinB9 Antibody (7D8) [Alexa Fluor® 647] NB100-64359AF647

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NB100-64359AF647**

SerpB9 Antibody (7D8) [Alexa Fluor® 647]

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 647
Purity	Protein G purified
Buffer	50mM Sodium Borate
Product Description	
Host	Mouse
Gene ID	5272
Gene Symbol	SERPINB9
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

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<b>Product Application Details</b>	
<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



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### **Products Related to NB100-64359AF647**

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NBP1-97005AF647	Mouse IgG1 Isotype Control (MG1) [Alexa Fluor® 647]
NB100-64359AF700	SerpinB9 Antibody (7D8) [Alexa Fluor® 700]
H00005272-Q01-10ug	Recombinant Human SerpinB9 GST (N-Term) Protein
210-TA-005	TNF-alpha [Unconjugated]

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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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