

# Product Datasheet

## CD79A Antibody (HM57) - BSA Free NB100-64347

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NB100-64347**

CD79A Antibody (HM57) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	HM57
Preservative	0.09% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS

Product Description	
Description	Novus Biologicals Mouse CD79A Antibody (HM57) - BSA Free (NB100-64347) is a monoclonal antibody validated for use in IHC and Flow. Anti-CD79A Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	973
Gene Symbol	CD79A
Species	Human
Reactivity Notes	Predicted cross-reactivities: Equine, Monkey, Guinea Pig, Goat, Fallow deer, Ferret, Dog, Bovine, American Bison, Porcine, Rabbit, Mouse, Rat, Red deer Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
Specificity/Sensitivity	NB100-64347 recognizes an epitope within the cytoplasmic domain of CD79a. CD79a, also known as mb-1, is a 45kD protein that is expressed by B lymphocytes during differentiation from early pre-B cell stage through to plasma cells. The CD79a molecule associates with CD79b (B29) to form a heterodimer that is non-covalently linked to surface immunoglobulin, forming the B-cell receptor (BCR) complex. The CD79a/CD79b heterodimers are also necessary for intracellular signalling following antigen-binding to surface immunoglobulin. Clone HM57 has been reported to work in western blotting applications.
Immunogen	Synthetic peptide corresponding to 202-216 amino acid sequence of human mb-1

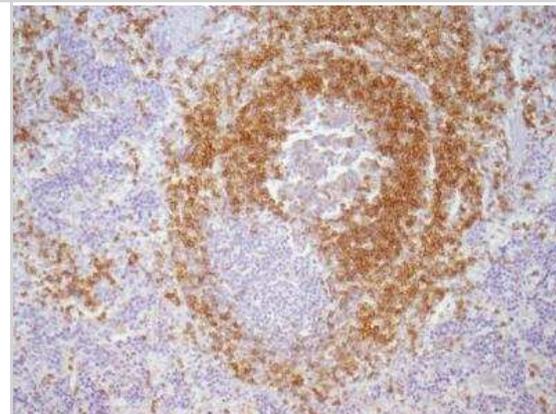
Product Application Details	
Applications	Immunohistochemistry-Paraffin, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen
Recommended Dilutions	Flow Cytometry 1:50-1:100, Immunohistochemistry 1:10-1:500, Immunohistochemistry-Paraffin 1:100-1:500, Immunohistochemistry-Frozen 1:10-1:500

**Application Notes**

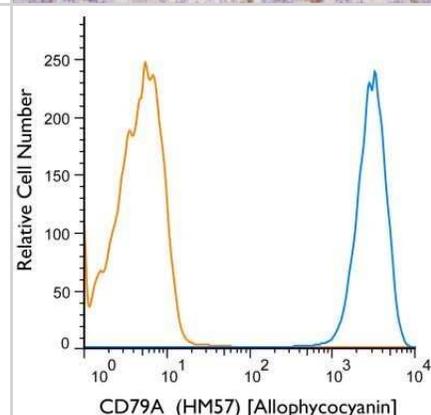
For Flow Cytometry: Use 10 ul of the suggested working dilution to label  $10^6$  cells in 100 ul. For IHC: heat treated antigen retrieval using sodium citrate buffer pH 6.0 is recommended for this purpose. Although not tested this antibody may be useful in Western Blot. NB100-64347 has been used successfully in Immunofluorescence reported by a by a customer review.

**Images**

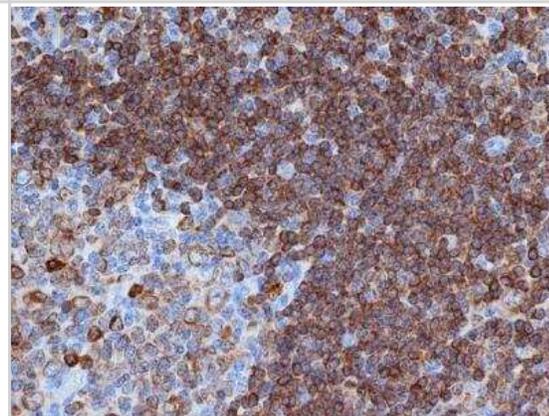
Immunohistochemistry: CD79A Antibody (HM57) [NB100-64347] - Paraffin-embedded alcohol fixed Rat Spleen tissue (20x). Antigen retrieval pH6. Dilution: 1:500 and ON incubation at 4C. This image was submitted via customer reviews.



Flow Cytometry: CD79A Antibody (HM57) [NB100-64347] - Using the Allophycocyanin direct conjugate An intracellular stain was performed on Daudi cells with CD79A (HM 57) antibody NB100-64347APC (blue) and a matched isotype control NBP1-97005APC (orange). Cells were fixed with 4% PFA and then permeablized with 0.1% saponin. Cells were incubated in an antibody dilution of 0.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Allophycocyanin.



Immunohistochemistry-Paraffin: CD79A Antibody (HM57) [NB100-64347] - Embedded human tonsil.



## Publications

Patlin B, Schwerdtfeger L, Tobet S Neuropeptide stimulation of physiological and immunological responses in precision-cut lung slices *Physiological reports* 2023-11-01 [PMID: 37994278]

Zhu J, Fan Y, Xiong Y et al. Delineating the dynamic evolution from preneoplasia to invasive lung adenocarcinoma by integrating single-cell RNA sequencing and spatial transcriptomics *Experimental & molecular medicine* 2022-11-25 [PMID: 36434043] (IF/IHC, Human)

Badr Y, Noreldin AE, Elewa YHA et al. Cellular infiltration, cytokines, and histopathology of skin lesions associated with different clinical forms and stages of naturally occurring lumpy skin disease in cattle *Comparative immunology, microbiology and infectious diseases* 2022-10-07 [PMID: 36270050] (IHC-P, Bovine)

Lynch TJ, Ahlers BA, Swatek AM Et al. Ferret Lung Transplantation Models Differential Lymphoid Aggregate Morphology Between Restrictive and Obstructive Forms of Chronic Lung Allograft Dysfunction Transplantation 2022-04-20 [PMID: 35442232]

### Details:

Citation using the Texas Red version of this antibody.

Skedsmo FS, Espenes A, Tranulis MA et al. Impaired NDRG1 functions in Schwann cells cause demyelinating neuropathy in a dog model of Charcot-Marie-Tooth type 4D *Neuromuscular disorders : NMD* 2020-11-26 [PMID: 33334662] (IF/IHC, Canine)

Ali M, Abdel Hafez M, Mohamed M. The ameliorating effect of some immune-stimulants on bursal and tracheal lesions of broiler chickens challenged with ND virus JoBAZ 2019-12-01 (IF/IHC, Chicken)





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### **Products Related to NB100-64347**

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NBL1-08969	CD79A Overexpression Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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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