

# Product Datasheet

## **B220/CD45R Antibody (RA3-6B2)** **NB100-77420SS**

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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Updated 3/2/2022 v.20.1

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**NB100-77420SS**

B220/CD45R Antibody (RA3-6B2)

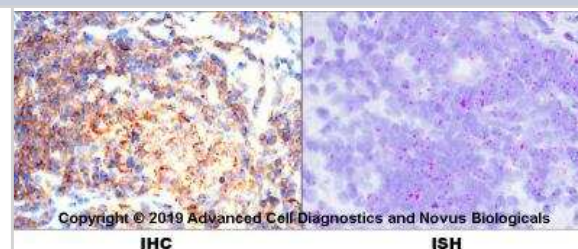
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	RA3-6B2
Preservative	0.09% Sodium Azide
Isotype	IgG2a Kappa
Purity	Protein A or G purified
Buffer	PBS (pH 7.2)

Product Description	
Host	Rat
Gene ID	5788
Gene Symbol	PTPRC
Species	Human, Mouse, Feline
Immunogen	Abelson murine leukemia virus-induced pre-B tumor cells

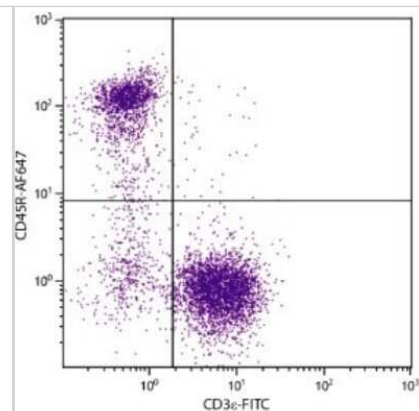
Product Application Details	
Applications	Flow Cytometry, Flow (Cell Surface), Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Dual RNAscope ISH-IHC
Recommended Dilutions	Flow Cytometry &lt; 0.25 ug/10 <sup>6</sup> cells in 100 ul, Immunohistochemistry 1:10-1:500, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500, Flow (Cell Surface), Dual RNAscope ISH-IHC
Application Notes	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is: 0.25 microgram per one million cells in 100 microliter volume. Immunohistochemistry, It is recommended that the reagent be titrated for optimal performance for each application. Useful in Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin and Immunoprecipitation as reported in Literature.

**Images**

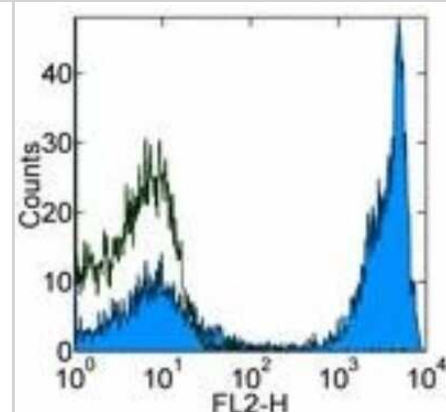
Dual RNAscope ISH-IHC: B220/CD45R Antibody (RA3-6B2) [NB100-77420] - Formalin-fixed paraffin-embedded tissue sections of human tonsil were probed for CD45 mRNA (ACD RNAscope probe, catalog # 418801; Fast Red chromogen, ACD catalog # 322500). Adjacent tissue section was processed for immunohistochemistry using rat monoclonal (Novus catalog # NB100-77420) at 1:100 dilution for 1 hour at room temperature followed by incubation with the anti-rat IgG VisUCyte HRP Polymer Antibody (Catalog # VC005) and DAB chromogen (yellow-brown). Tissue was counterstained with hematoxylin (blue).



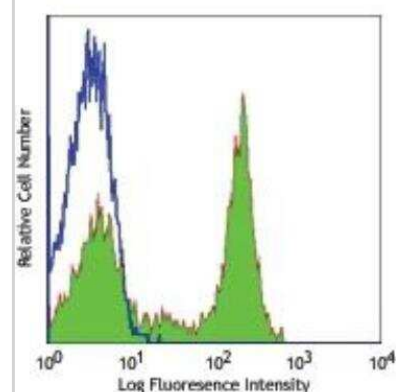
Flow Cytometry: B220/CD45R Antibody (RA3-6B2) [NB100-77420] - Analysis using the Cy5 conjugate of NB100-77420. Multiple staining of BALB/c splenocytes.



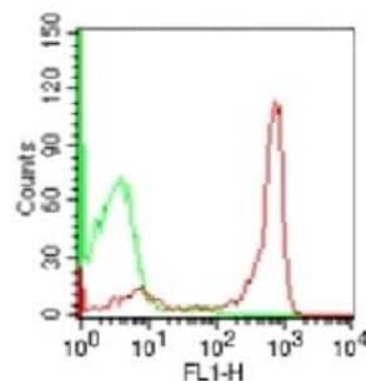
Flow Cytometry: B220/CD45R Antibody (RA3-6B2) [NB100-77420] - Analysis of Biotin conjugate of NB100-77420. Staining of BALB/c splenocytes with 0.06 ug of Rat IgG2a kappa Isotype Control Biotin (open histogram) or 0.06 ug of Anti-Human/Mouse CD45R (B220) Biotin (filled histogram) followed by Streptavidin PE.



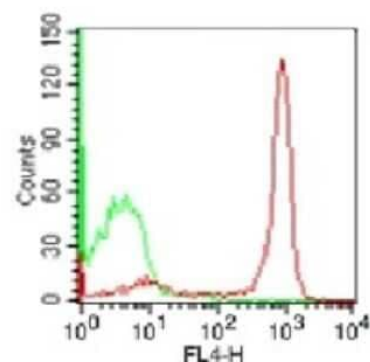
Flow Cytometry: B220/CD45R Antibody (RA3-6B2) [NB100-77420] - C57BL/6 mouse splenocytes stained with purified RA3-6B2, followed by anti-rat IgG FITC



Flow (Cell Surface): B220/CD45R Antibody (RA3-6B2) [NB100-77420] - Analysis using the Alexa Fluor (R) 488 conjugate of NB100-77420. Staining of CD45R on  $10^6$  BALB/c mouse splenocytes using 0.25 ug of this antibody. Green histogram represents isotype control; red represents CD45R antibody. Cell surface flow kit was used for this test (cells were not fixed for testing).



Flow (Cell Surface): B220/CD45R Antibody (RA3-6B2) [NB100-77420] - Analysis using the Alexa Fluor (R) 647 conjugate of NB100-77420. Staining of CD45R on  $10^6$  BALB/c mouse splenocytes using 0.25 ug of this antibody. Green histogram represents isotype control; red represents CD45R antibody. Cell surface flow kit was used for this test (cells were not fixed for testing).



## Publications

Estrada J, Zhan J, Mitchell P et al. OncoVEXmGM-CSF expands tumor antigen-specific CD8+ T-cell response in preclinical models Journal for immunotherapy of cancer 2023-05-01 [PMID: 37164449] (IHC-P, Mouse)

Zhu C, Lee JY, Woo JZ et al. An intranasal ASO therapeutic targeting SARS-CoV-2 Nature communications 2022-08-03 [PMID: 35922434] (IHC-P)

Details:

Dilutions: 1:10000

Yiu, YY;Hansen, PS;Torrez Dulgeroff, LB;Blacker, G;Myers, L;Galloway, S;Gars, E;Colace, O;Mansfield, P;Hasenkrug, KJ;Weissman, IL;Tal, MC; CD47 Blockade Leads to Chemokine-Dependent Monocyte Infiltration and Loss of B Cells from the Splenic Marginal Zone Journal of immunology (Baltimore, Md. : 1950) [PMID: 35236754] (IF/IHC, Mouse)

Ho WJ, Erbe R, Danilova L et al. Multi-omic profiling of lung and liver tumor microenvironments of metastatic pancreatic cancer reveals site-specific immune regulatory pathways Genome biology 2021-05-13 [PMID: 33985562] (IF/IHC, Mouse)

Day YJ, Liou JT, Lee CM et al. Lack of interleukin-17 leads to a modulated micro-environment and amelioration of mechanical hypersensitivity after peripheral nerve injury in mice. Pain 2014-04-08 [PMID: 24721689] (IHC-P, Mouse)

Hata H, Sakaguchi N, Yoshitomi H et al. Distinct contribution of IL-6, TNF-alpha, IL-1, and IL-10 to T cell-mediated spontaneous autoimmune arthritis in mice. J Clin Invest. 2004-08-01 [PMID: 15314695]

Monteith CE, Chelack BJ, Davis WC et al. Identification of monoclonal antibodies for immunohistochemical staining of feline B lymphocytes in frozen and formalin-fixed paraffin-embedded tissues. Can J Vet Res. 1996-07-01 [PMID: 8809382]

Coffman RL. Surface antigen expression and immunoglobulin gene rearrangement during mouse pre-B cell development. Immunol Rev. 1982-01-01 [PMID: 6984001]



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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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