

# Product Datasheet

## CD9 Antibody (IVA50) - BSA Free NB500-494

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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### Publications: 8

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**NB500-494**

CD9 Antibody (IVA50) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	IVA50
Preservative	15mM Sodium Azide
Isotype	IgG2
Purity	Protein A purified
Buffer	Phosphate buffered saline (PBS), pH 7.4
Target Molecular Weight	24 kDa

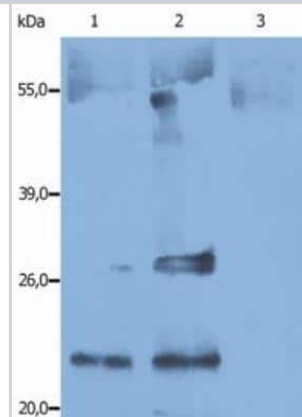
Product Description	
Description	Novus Biologicals Mouse CD9 Antibody (IVA50) - BSA Free (NB500-494) is a monoclonal antibody validated for use in WB, Flow and IP. Anti-CD9 Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	928
Gene Symbol	CD9
Species	Human, Bovine
Specificity/Sensitivity	The antibody IVA50 reacts with CD9 antigen (bovine), a 24 kDa single transmembrane polypeptide expressed on platelets, monocytes, pre-B lymphocytes, granulocytes and activated T lymphocytes.
Immunogen	Bovine thrombocytes.

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Western Blot 1 ug/ml, Flow Cytometry 1:10-1:1000, Immunoprecipitation 1:50, CyTOF-ready
Application Notes	This antibody is Cytof ready.

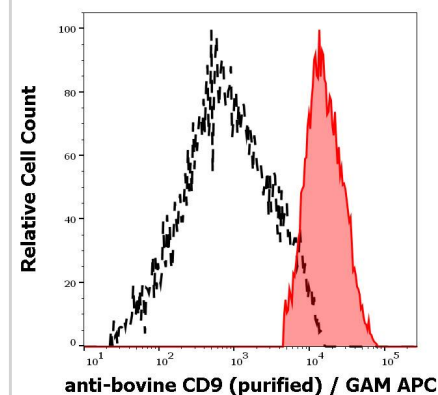


## Images

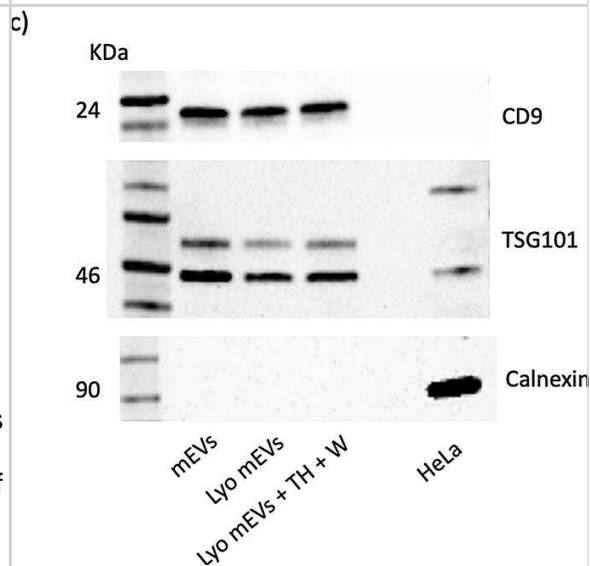
Immunoprecipitation: CD9 Antibody (IVA50) [NB500-494] - Fig. 1.  
 Immunoprecipitation of human CD9 from the biotin-labeled human platelets lysates. Lane 1: immunoprecipitation with anti-CD9 (IVA50)  
 Lane 2: immunoprecipitation with anti-human CD9 control antibody Lane  
 3: immunoprecipitation with negative control.



Separation of bovine CD9 positive thrombocytes (red-filled) from lymphocytes (black-dashed) in Analysis (surface staining) of bovine peripheral whole blood stained using anti-bovine CD9 (IVA50) purified antibody (concentration in sample 10 ug/ml) GAM APC.



(a) Mean fluorescence (log scaled) of mEVs under confocal microscopy loaded with Calcein-AM post-lyophilization after removal of exogenous dye via Sepharose G50 spin column. N = 6 images, error bars are representative of standard deviation within each group; biological duplicates. No signal was observed in HEPES control, 10mM TH, and 50mM sucrose groups (Images in Figure S6). Multiple T tests with Bonferroni Correction ( $\alpha = 0.05$ ), reveals significant differences between fresh and 25mM TH | 75mM TH and between 25 mM TH and 50mM TH | 50mM TH + W. N = 6 images, 3 ROIs each (b) CTDR: DAPI fluorescent ratios (log-scaled) of CTDR loaded fresh mEVs supplemented with TH (50mM) and TH (50mM) + Tryptophan (W; 100  $\mu$ M) on MDCK cells and 50mM TH + 100  $\mu$ M Tryptophan mEVs loaded with CTDR uptake post-lyophilization over time in room temperature storage, biological triplicates with N = 10 pictures per sample, outliers removed. (d) Western blotting of lyophilized mEV isolate for CD9, TSG-101, and negative expression of Calnexin. Lyophilized samples were stored at RT for 1 month Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/39806456>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Turner NP, Abeysinghe P, Sadowski P, Mitchell MD Omics Analysis of Extracellular Vesicles Recovered from Infant Formula Products and Milk: Towards Personalized Infant Nutrition Molecular nutrition & food research 2023-08-10 [PMID: 37562982] (Western Blot, Bovine, Human)

Han, G;Kim, H;Jang, H;Kim, ES;Kim, SH;Yang, Y; Oral TNF- $\alpha$  siRNA delivery via milk-derived exosomes for effective treatment of inflammatory bowel disease Bioactive materials 2024-04-01 [PMID: 38223538]

Liu W, Du C, Nan L et al. Influence of Estrus on Dairy Cow Milk Exosomal miRNAs and Their Role in Hormone Secretion by Granulosa Cells International journal of molecular sciences 2023-06-01 [PMID: 37298559]

Turner N, Abeysinghe P, Flay H et al. SWATH-MS Analysis of Blood Plasma and Circulating Small Extracellular Vesicles Enables Detection of Putative Protein Biomarkers of Fertility in Young and Aged Dairy Cows Journal of proteome research 2023-11-03 [PMID: 37830897]

Go G, Jeon J, Lee G et al. Bovine milk extracellular vesicles induce the proliferation and differentiation of osteoblasts and promote osteogenesis in rats. J Food Biochem 4427-01-01 [PMID: 33748986] (WB)

Go G, Park HJ, Lee JH et al. Inhibitory Effect of Oxaliplatin-loaded Engineered Milk Extracellular Vesicles on Tumor Progression Anticancer research 2022-02-01 [PMID: 35093883]

Marsh S, Pridham K, Jourdan J, Gourdie R Novel Protocols for Scalable Production of High Quality Purified Small Extracellular Vesicles from Bovine Milk Nanotheranostics 2021-07-27 [PMID: 34367882] (WB)

Rahman MM, Shimizu K, Yamauchi M et al. Acidification effects on isolation of extracellular vesicles from bovine milk PLoS ONE 2019-09-16 [PMID: 31525238] (WB, Bovine)





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### **Products Related to NB500-494**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
236-EG-200	EGF [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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