

# Product Datasheet

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

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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[technical@novusbio.com](mailto:technical@novusbio.com)

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**NB500-494**

CD9 Antibody (IVA50) - BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C. Do not freeze.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	IVA50
<b>Preservative</b>	0.9% Sodium Azide
<b>Isotype</b>	IgG2
<b>Purity</b>	Protein A purified
<b>Buffer</b>	PBS (pH 7.4)
<b>Target Molecular Weight</b>	24 kDa

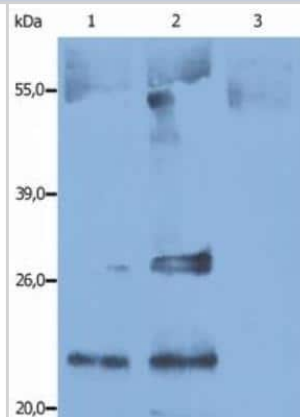
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	928
<b>Gene Symbol</b>	CD9
<b>Species</b>	Human, Bovine
<b>Specificity/Sensitivity</b>	The antibody IVA50 reacts with CD9 antigen (bovine), a 24 kDa single transmembrane polypeptide expressed on platelets, monocytes, pre-B lymphocytes, granulocytes and activated T lymphocytes.
<b>Immunogen</b>	Bovine thrombocytes.

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

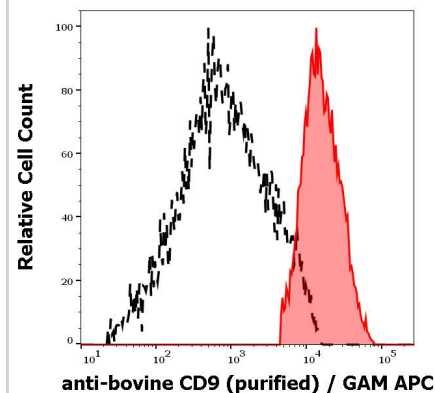


## Images

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.



## 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)



### **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 NB500-494**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
236-EG-200	EGF [Unconjugated]
10015-CD-100	CD9 [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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