

CD9 (Mouse) Recombinant Monoclonal Rat Antibody (24MS04.9) – Biotium Choice

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CD9 (clone 24MS04.9) is a validated recombinant rat monoclonal antibody that recognizes the mouse tetraspanin protein CD9. The antibody belongs to the Biotium Choice list of select antibodies that have been developed and validated in-house for optimal performance. This antibody has been validated in flow cytometry.

Product Description

CD9 (clone 24MS04.9) is a recombinant rat monoclonal antibody that recognizes the mouse tetraspanin protein CD9. This antibody belongs to the Biotium Choice list of select antibodies that were developed and validated in-house for optimal performance. This antibody has been validated in flow cytometry.

CD9 is a surface glycoprotein of the tetraspannin family. It is expressed on a variety of cells, including nerve, muscle cells and many cells of hematopoietic origin. CD9 is found to participate in forming a large molecular cell complex with other membrane proteins, such as MHC class II, CD19, CD5 and other TM4SF molecules. It is reported that CD9 is a marker of marginal zone B cells, B1 cells and plasma cells. The diverse functions of CD9 may largely depend upon its associated molecules on different cells.

Tetraspanin proteins CD9, CD63, and CD81, are the most common proteins used as exosome markers. Tetraspanins are plasma membrane proteins with many proposed functions, including activation and sorting of other membrane proteins. They are also thought to play a role in the targeting of proteins to multivesicular bodies (MVBs) and exosomes. These tetraspanins are broadly expressed on many cell types and can therefore be detected on many types of exosomes, but their expression levels vary depending on the cell type of origin.

Biotium also offers Biotium choice recombinant antibodies against mouse/rat CD81 (24MS04.81) and human CD9 (2310.9).

<u>View our full catalog of Biotium Choice antibodies</u>, optimized and validated for the best results in flow cytometry.

Extracellular Vesicle Stains and Antibodies

Biotium also offers ExoBriteTM CD9 Flow Antibody and ExoBriteTM CD9 Western Antibody that are validated for optimal detection of isolated extracellular vesicles (EVs) by flow cytometry or western blotting. Learn more about our products for EV research.

Product attributes

Call us: 800-304-5357

Antibody number #P016 SwissProt P40240 Biotium Choice Antibody Primary Antibody type Biotium Choice Flow Antibodies, Primary Clonality Recombinant Monoclonal Host species Rat Clone 24MS04.9 Isotype IgG2a, kappa Antibody reactivity (target) CD9 Synonyms DRAP-27, MRP-1, p-24 Species reactivity Mouse Human gene symbol CD9 Entrez gene ID 12527 Molecular weight 24 kDa Antibody target cellular localization Cell/tissue expression Exosomes/EVs, Plasma membrane Cell/tissue expression Flow (surface) (verified) applications Positive control NIH 3T3 cells, RAW 264.7 cells Antibody application notes Flow Cytometry: 0.5-1 ug/mL (or, 0.05-0.1 ug/million cells), Immunofluorescence: 1 ug/mL Antibody research areas Exosomes/EVs Antibody (conjugate formulation Characteristics) Purified, BSA-free: 2 mg/mL in PBS without azide, Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended Storage Conditions For research use only (RUO) Product origin Product may contain either bovine serum albumin (BSA) from					
Biotium Choice Antibody Primary Antibody type Biotium Choice Flow Antibodies, Primary Clonality Recombinant Monoclonal Host species Rat Clone 24MS04.9 Isotype IgG2a, kappa Antibody reactivity (target) CD9 Synonyms DRAP-27, MRP-1, p-24 Species reactivity Mouse Human gene symbol CD9 Entrez gene ID 12527 Molecular weight 24 kDa Antibody target cellular localization Cell/tissue expression Exosomes/EVs, Plasma membrane Cell/tissue expression Exosomes, Platelets, Basophils, Eosinophils, Epithelial cells, Lymphocytes Positive control NIH 3T3 cells, RAW 264.7 cells Antibody application notes Flow Cytometry: 0.5-1 ug/mL (or, 0.05-0.1 ug/million cells), Immunofluorescence: 1 ug/mL Antibody research areas Exosomes/EVs Antibody/conjugate formulation Purified, BSA-free: 2 mg/mL in PBS without azide, Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended Storage Conditions Por research use only (RUO)	Antibody number	#P016			
Antibody type Biotium Choice Flow Antibodies, Primary Clonality Recombinant Monoclonal Host species Rat Clone 24MS04.9 Isotype IgG2a, kappa Antibody reactivity (target) CD9 Synonyms DRAP-27, MRP-1, p-24 Species reactivity Mouse Human gene symbol CD9 Entrez gene ID 12527 Molecular weight 24 kDa Antibody target cellular localization Exosomes/EVs, Plasma membrane Cell/tissue expression Exosomes, Platelets, Basophils, Eosinophils, Epithelial cells, Lymphocytes Plow (surface) (verified) applications Positive control NIH 3T3 cells, RAW 264.7 cells Antibody application notes Flow Cytometry: 0.5-1 ug/mL (or, 0.05-0.1 ug/million cells), Immunofluorescence: 1 ug/mL Antibody research areas Exosomes/EVs Antibody conjugate formulation PLIC (or at least 24 months from date of receipt when stored as recommended Storage Conditions Note: store unconjugated formats at -10 °C to -35 °C, Store at 2 to 8 °C Regulatory status For research use only (RUO)	SwissProt	P40240			
Clonality Recombinant Monoclonal Host species Rat Clone 24MS04.9 Isotype IgG2a, kappa Antibody reactivity (target) CD9 Synonyms DRAP-27, MRP-1, p-24 Species reactivity Mouse Human gene symbol CD9 Entrez gene ID 12527 Molecular weight 24 kDa Antibody target cellular localization Exosomes/EVs, Plasma membrane Cell/tissue expression Exosomes/EVs, Plasma membrane Cell/tissue expression Exosomes, Platelets, Basophils, Eosinophils, Epithelial cells, Lymphocytes Plow (surface) (verified) applications Positive control NIH 3T3 cells, RAW 264.7 cells Antibody application notes Flow Cytometry: 0.5-1 ug/mL (or, 0.05-0.1 ug/million cells), Immunofluorescence: 1 ug/mL Antibody research areas Exosomes/EVs Antibody/conjugate formulation PBS/0.1% BSA/0.05% azide Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended Storage Conditions Note: store unconjugated formats at -10 °C to -35 °C, Store at 2 to 8 °C Regulatory status For research use only (RUO)	Biotium Choice Antibody	Primary			
Host species Rat Clone 24MS04.9 Isotype IgG2a, kappa Antibody reactivity (target) CD9 Synonyms DRAP-27, MRP-1, p-24 Species reactivity Mouse Human gene symbol CD9 Entrez gene ID 12527 Molecular weight 24 kDa Antibody target cellular localization Exosomes/EVs, Plasma membrane Cell/tissue expression Exosomes, Platelets, Basophils, Eosinophils, Epithelial cells, Lymphocytes Plow (surface) (verified) applications Positive control NIH 3T3 cells, RAW 264.7 cells Antibody application notes Flow Cytometry: 0.5-1 ug/mL (or, 0.05-0.1 ug/million cells), Immunofluorescence: 1 ug/mL Antibody research areas Exosomes/EVs Antibody/conjugate formulation PBS/oil-19 BS without azide, Conjugates: 0.1 mg/mL in PBS/oil-19 BS without azide, Conjugates: 0.1 mg/mL in PBS/oil-19 BS without azide of receipt when stored as recommended Storage Conditions Note: store unconjugated formats at -10 °C to -35 °C, Store at 2 to 8 °C Regulatory status For research use only (RUO)	Antibody type	Biotium Choice Flow Antibodies, Primary			
Clone 24MS04.9 Isotype IgG2a, kappa Antibody reactivity (target) CD9 Synonyms DRAP-27, MRP-1, p-24 Species reactivity Mouse Human gene symbol CD9 Entrez gene ID 12527 Molecular weight 24 kDa Antibody target cellular localization Exosomes/EVs, Plasma membrane Cell/tissue expression Exosomes, Platelets, Basophils, Eosinophils, Epithelial cells, Lymphocytes Verified antibody applications Flow (surface) (verified) Positive control NIH 3T3 cells, RAW 264.7 cells Antibody application notes Flow Cytometry: 0.5-1 ug/mL (or, 0.05-0.1 ug/million cells), Immunofluorescence: 1 ug/mL Antibody research areas Exosomes/EVs Antibody/conjugate formulation Purified, BSA-Iree: 2 mg/mL in PBS without azide, Conjugates: 0.1 mg/mB. in PBS/0.1% BSA/0.05% azide Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended Storage Conditions Note: store unconjugated formats at -10 °C to -35 °C, Store at 2 to 8 °C Regulatory status For research use only (RUO)	Clonality	Recombinant Monoclonal			
Isotype IgG2a, kappa Antibody reactivity (target) CD9 Synonyms DRAP-27, MRP-1, p-24 Species reactivity Mouse Human gene symbol CD9 Entrez gene ID 12527 Molecular weight 24 kDa Antibody target cellular localization Exosomes/EVs, Plasma membrane Cell/tissue expression Exosomes, Platelets, Basophils, Eosinophils, Epithelial cells, Lymphocytes Plow (surface) (verified) applications Positive control NIH 3T3 cells, RAW 264.7 cells Antibody application notes Flow Cytometry: 0.5-1 ug/mL (or, 0.05-0.1 ug/million cells), Immunofluorescence: 1 ug/mL Antibody research areas Exosomes/EVs Antibody/conjugate formulation 0.1 mg/mL in PBS without azide, Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended Storage Conditions Note: store unconjugated formats at -10 °C to -35 °C, Store at 2 to 8 °C Regulatory status For research use only (RUO)	Host species	Rat			
Antibody reactivity (target) Synonyms DRAP-27, MRP-1, p-24 Species reactivity Mouse Human gene symbol CD9 Entrez gene ID 12527 Molecular weight 24 kDa Antibody target cellular localization Cell/tissue expression Exosomes/EVs, Plasma membrane Cell/tissue expression Exosomes, Platelets, Basophils, Eosinophils, Epithelial cells, Lymphocytes Plow (surface) (verified) applications Positive control NIH 3T3 cells, RAW 264.7 cells Antibody application notes Flow Cytometry: 0.5-1 ug/mL (or, 0.05-0.1 ug/million cells), Immunofluorescence: 1 ug/mL Antibody research areas Exosomes/EVs Antibody/conjugate formulation Purified, BSA-free: 2 mg/mL in PBS without azide, Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended Storage Conditions Note: store unconjugated formats at -10 °C to -35 °C, Store at 2 to 8 °C Regulatory status For research use only (RUO)	Clone	24MS04.9			
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Species reactivity Mouse Human gene symbol CD9 Entrez gene ID 12527 Molecular weight 24 kDa Antibody target cellular localization Cell/tissue expression Exosomes/EVs, Plasma membrane Cell/tissue expression Exosomes, Platelets, Basophils, Eosinophils, Epithelial cells, Lymphocytes Plow (surface) (verified) Applications Positive control NIH 3T3 cells, RAW 264.7 cells Antibody application notes Flow Cytometry: 0.5-1 ug/mL (or, 0.05-0.1 ug/million cells), Immunofluorescence: 1 ug/mL Antibody/conjugate formulation Purified, BSA-free: 2 mg/mL in PBS without azide, Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended Storage Conditions Note: store unconjugated formats at -10 °C to -35 °C, Store at 2 to 8 °C Regulatory status For research use only (RUO)	Antibody reactivity (target)	CD9			
Human gene symbol CD9 Entrez gene ID 12527 Molecular weight 24 kDa Antibody target cellular localization Cell/tissue expression Exosomes, Platelets, Basophils, Eosinophils, Epithelial cells, Lymphocytes Verified antibody applications Positive control NIH 3T3 cells, RAW 264.7 cells Antibody application notes Flow Cytometry: 0.5-1 ug/mL (or, 0.05-0.1 ug/million cells), Immunofluorescence: 1 ug/mL Antibody/conjugate formulation Purified, BSA-free: 2 mg/mL in PBS without azide, Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended Storage Conditions Note: store unconjugated formats at -10 °C to -35 °C, Store at 2 to 8 °C Regulatory status For research use only (RUO)	Synonyms	DRAP-27, MRP-1, p-24			
Entrez gene ID 12527 Molecular weight 24 kDa Antibody target cellular localization Cell/tissue expression Exosomes/EVs, Plasma membrane localization Cell/tissue expression Exosomes, Platelets, Basophils, Eosinophils, Epithelial cells, Lymphocytes Plow (surface) (verified) applications Positive control NIH 3T3 cells, RAW 264.7 cells Antibody application notes Flow Cytometry: 0.5-1 ug/mL (or, 0.05-0.1 ug/million cells), Immunofluorescence: 1 ug/mL Antibody research areas Exosomes/EVs Antibody/conjugate formulation PBS/0.1% BSA/0.05% azide Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended Storage Conditions Note: store unconjugated formats at -10 °C to -35 °C, Store at 2 to 8 °C Regulatory status For research use only (RUO)	Species reactivity	Mouse			
Molecular weight 24 kDa Antibody target cellular localization Exosomes/EVs, Plasma membrane Cell/tissue expression Exosomes, Platelets, Basophils, Eosinophils, Epithelial cells, Lymphocytes Plow (surface) (verified) applications Positive control NIH 3T3 cells, RAW 264.7 cells Antibody application notes Flow Cytometry: 0.5-1 ug/mL (or, 0.05-0.1 ug/million cells), Immunofluorescence: 1 ug/mL Antibody/conjugate formulation Purified, BSA-free: 2 mg/mL in PBS without azide, Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended Storage Conditions Note: store unconjugated formats at -10 °C to -35 °C, Store at 2 to 8 °C Regulatory status For research use only (RUO)	Human gene symbol	CD9			
Antibody target cellular lexistence Exosomes/EVs, Plasma membrane	Entrez gene ID	12527			
Coelitation Exosomes, Platelets, Basophils, Eosinophils, Epithelial cells, Lymphocytes	Molecular weight	24 kDa			
Lymphocytes Verified antibody applications Positive control Antibody application notes Flow Cytometry: 0.5-1 ug/mL (or, 0.05-0.1 ug/million cells), immunofluorescence: 1 ug/mL Antibody research areas Exosomes/EVs Antibody/conjugate formulation O.1 mg/mL in PBS/0.1% BSA/0.05% azide Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended Storage Conditions Note: store unconjugated formats at -10 °C to -35 °C, Store at 2 to 8 °C Regulatory status For research use only (RUO)		Exosomes/EVs, Plasma membrane			
applications Positive control NIH 3T3 cells, RAW 264.7 cells Antibody application notes Flow Cytometry: 0.5-1 ug/mL (or, 0.05-0.1 ug/million cells), immunofluorescence: 1 ug/mL Antibody research areas Exosomes/EVs Antibody/conjugate formulation 2.1 mg/mL in PBS without azide, Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended Storage Conditions Note: store unconjugated formats at -10 °C to -35 °C, Store at 2 to 8 °C Regulatory status For research use only (RUO)	Cell/tissue expression				
Antibody application notes Flow Cytometry: 0.5-1 ug/mL (or, 0.05-0.1 ug/million cells), mmunofluorescence: 1 ug/mL (or, 0.05-0.1 ug/mL (or,		Flow (surface) (verified)			
Immunofluorescence: 1 ug/mL Antibody research areas Exosomes/EVs Antibody/conjugate formulation	Positive control	NIH 3T3 cells, RAW 264.7 cells			
Antibody/conjugate formulation Purified, BSA-free: 2 mg/mL in PBS without azide, Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended Storage Conditions Note: store unconjugated formats at -10 °C to -35 °C, Store at 2 to 8 °C Regulatory status For research use only (RUO)	Antibody application notes				
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stored as recommended Storage Conditions Note: store unconjugated formats at -10 °C to -35 °C, Store at 2 to 8 °C Regulatory status For research use only (RUO)					
to 8 °C Regulatory status For research use only (RUO)	Shelf life				
J	Storage Conditions				
Product origin Product may contain either bovine serum albumin (BSA) from	Regulatory status	For research use only (RUO)			
bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.	Product origin	bovine serum (Bos taurus), or recombinant BSA produced in			

Email: btinfo@biotium.com

Conjugation	Ex/Em	Conc.	Size	Catalog No.	Dye Features
<u>CF®405M</u> 416/452 r	416/452 nm	100 ug/mL	25 tests (125 uL)	P016-405M-125	CF®405M Features
			100 tests (500 uL)	P016-405M-500	
<u>CF®488A</u> 490/51	490/516 nm	100 ug/mL	25 tests (125 uL)	P016-488A-125	CF®488A Features
			100 tests (500 uL)	P016-488A-500	
<u>CF® 568</u>	562/584 nm	100 ug/mL	25 tests (125 uL)	P016-568-125	CF®568 Features
			100 tests (500 uL)	P016-568-500	
CF® 647Plus	652/668 nm	100 ug/mL	25 tests (125 uL)	P016-647P-125	CF®647Plus Features
			100 tests (500 uL)	P016-647P-500	
Purified (BSA-free)	N/A	2 mg/mL	1 mg	P016-1MG	
			5 mg	P016-5MG	

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