

ARG65441
anti-CD9 antibody [EM-04] (biotin)Package: 100 µg
Store at: 4°C

Summary

Product Description	Biotin-conjugated Rat Monoclonal antibody [EM-04] recognizes CD9
Tested Reactivity	Ms
Tested Application	FACS
Specificity	The clone EM-04 recognizes CD9 antigen, a 24 kDa transmembrane protein expressed on platelets, monocytes, pre-B lymphocytes, granulocytes and activated T lymphocytes.
Host	Rat
Clonality	Monoclonal
Clone	EM-04
Isotype	IgG1
Target Name	CD9
Species	Mouse
Immunogen	Permeabilized murine bone marrow-derived mast cells (BMMC).
Conjugation	Biotin
Alternate Names	Leukocyte antigen MIC3; BTCC-1; TSPAN-29; MIC3; Tetraspanin-29; p24; Cell growth-inhibiting gene 2 protein; CD9 antigen; MRP-1; DRAP-27; 5H9 antigen; CD antigen CD9; TSPAN29; Motility-related protein; Tspan-29

Application Instructions

Application table	Application	Dilution
	FACS	2 - 4 µg/ml

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification Note	The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 12527 Mouse Swiss-port # P40240 Mouse
Gene Symbol	Cd9
Gene Full Name	CD9 antigen
Background	CD9 belongs to proteins of tetraspanin family that orchestrate cholesterol-associated tetraspanin-enriched signaling microdomains within the plasma membrane, forming complexes with each other as well as with integrins, membrane-anchored growth factors and other proteins. CD9 is involved in cell motility, osteoclastogenesis, neurite outgrowth, myotube formation, and sperm-egg fusion, plays roles in cell attachment and proliferation and is necessary for association of heterologous MHC II molecules on the dendritic cell plasma membrane which is important for effective T cell stimulation. CD9 is also considered as metastasis suppressor in solid tumors.
Function	Involved in platelet activation and aggregation. Regulates paranodal junction formation. Involved in cell adhesion, cell motility and tumor metastasis. Required for sperm-egg fusion (By similarity). Acts as a receptor for PSG17. [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Developmental Biology antibody; Immune System antibody
Calculated Mw	25 kDa
PTM	Palmitoylated at a low, basal level in unstimulated platelets. The level of palmitoylation increases when platelets are activated by thrombin (in vitro). The protein exists in three forms with molecular masses between 22 and 27 kDa, and is known to carry covalently linked fatty acids.