

TECHNICAL DATA SHEET

CyFlow™ CD9 Biotin Anti-Ms; Clone EM-04

REF AM929014

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD9
Alternative Names	MRP-1, P24
Clone	EM-04
Clonality	monoclonal
Format	Biotin
Host / Isotype	Rat / IgG1
Species Reactivity	Mouse
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Permeabilized murine bone marrow-derived mast cells (BMMC)

Specificity

The rat monoclonal antibody EM-04 recognizes mouse CD9 antigen, a 24 kDa transmembrane protein expressed on platelets, monocytes, pre-B lymphocytes, granulocytes and activated T lymphocytes.

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Application

The reagent is designed for indirect immunofluorescence analysis by Flow Cytometry. Working concentrations should be determined by the investigator.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH \approx 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

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.

References

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- Athman JJ, Wang Y, McDonald DJ, Boom WH, Harding CV, Wearsch PA: Bacterial Membrane Vesicles Mediate the Release of Mycobacterium tuberculosis Lipoglycans and Lipoproteins from Infected Macrophages.. *J Immunol*. 2015 Aug 1; 195(3):1044-53. < PMID: 26109643 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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