Monoclonal Antibody to CD9 (mouse) 
Biotin conjugated (0.1 mg)

Clone: EM-04
Isotype: Rat IgG1
Specificity: The rat monoclonal antibody EM-04 recognizes CD9 antigen, a 24 kDa transmembrane protein expressed on platelets, monocytes, pre-B lymphocytes, granulocytes and activated T lymphocytes.

Regulatory Status: RUO
Immunogen: Permeabilized murine bone marrow-derived mast cells (BMMC).
Species Reactivity: Mouse
Preparation: The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.
Concentration: 1 mg/ml
Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability: Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Usage: Reagent is designed for flow cytometry analysis.
Expiration: See vial label
Lot Number: See vial label

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.

References: