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# Anti-CD9-AcalephFluor488-labled

Catalog # AP101564

## Product Information

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| **Application** | FC, IF/IC |
| **Primary Accession** | P21926 |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **Calculated MW** | 25416 |

## Additional Information

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| **Gene ID** | 928 |
| **Other Names** | MIC3; TSPAN29; CD9 antigen; 5H9 antigen; Cell growth-inhibiting gene 2 protein; Leukocyte antigen MIC3; Motility-related protein; MRP-1; Tetraspanin-29; Tspan-29; p24; CD antigen CD9 |
| **Target/Specificity** | Recognizes human CD9 |
| **Dilution** | FC~~1:10~50 IF/IC~~N/A |
| **Format** | Mouse IgG1. Liquid in PBS, pH 7.3, 0.2% BSA, and 0.02% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## Protein Information

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| **Name** | CD9 {ECO:0000303\|PubMed:1840589, ECO:0000312\|HGNC:HGNC:1709} |
| **Function** | Integral membrane protein associated with integrins, which regulates different processes, such as sperm-egg fusion, platelet activation and aggregation, and cell adhesion (PubMed:14575715, PubMed:18541721, PubMed:8478605). Present at the cell surface of oocytes and plays a key role in sperm-egg fusion, possibly by organizing multiprotein complexes and the morphology of the membrane required for the fusion (By similarity). In myoblasts, associates with CD81 and PTGFRN and inhibits myotube fusion during muscle regeneration (By similarity). In macrophages, associates with CD81 and beta-1 and beta-2 integrins, and prevents macrophage fusion into multinucleated giant cells specialized in ingesting complement-opsonized large particles (PubMed:12796480). Also prevents the fusion between mononuclear cell progenitors into osteoclasts in charge of bone resorption (By similarity). Acts as a receptor for PSG17 (By similarity). Involved in platelet activation and aggregation (PubMed:18541721). Regulates paranodal junction formation (By similarity). Involved in cell adhesion, cell motility and tumor metastasis (PubMed:7511626, PubMed:8478605). |

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| **Cellular Location** | Cell membrane; Multi-pass membrane protein. Membrane; Multi-pass membrane protein. Secreted, extracellular exosome {ECO:0000250\|UniProtKB:P40240}. Note=Present at the cell surface of oocytes. Accumulates in the adhesion area between the sperm and egg following interaction between IZUMO1 and its receptor IZUMO1R/JUNO {ECO:0000250\|UniProtKB:P40240} |
| **Tissue Location** | Detected in platelets (at protein level) (PubMed:19640571). Expressed by a variety of hematopoietic and epithelial cells (PubMed:19640571). |

## Background

AcalephFluor488-labled mouse monoclonal antibody to CD9

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.