

**30-1085: Anti-CD49d / Integrin alpha 4 Monoclonal Antibody (Clone:9F10)**

|                           |   |
|---------------------------|---|
| <b>Clonality :</b>        | Monoclonal  |
| <b>Clone Name :</b>       | 9F10  |
| <b>Application :</b>      | FACS, IHC-Fr, Functional Assay                                |
| <b>Reactivity :</b>       | Human, Non-Human Primates, Bovine, Dog, Equine, Feline, Sheep |
| <b>Gene :</b>             | ITGA4   |
| <b>Gene ID :</b>          | 3676  |
| <b>Uniprot ID :</b>       | P13612  |
| <b>Format :</b>           | Purified  |
| <b>Alternative Name :</b> | ITGA4,CD49D   |
| <b>Isotype :</b>          | Mouse IgG1  |

**Description**

CD49d / integrin alpha 4, unlike other alpha integrins, neither contains an I-domain, nor undergoes disulfide-linked cleavage. It associates with beta 7 chain to form alpha 4 / beta 7 integrin, and with beta 1 chain (CD29) to form VLA-4 integrin. These complexes are important for lymphocyte migration from circulation into tissue (binding VCAM-1) and homing of T cell subsets to Peyer's patches (binding MadCAM-1), but VLA-4 is also target for invasive bacteria which contain invasins. CD49d is essential for differentiation and migration of hematopoietic stem cells by their adhesion to bone marrow stromal cells, and provides a costimulatory signal to TCR-CD3 complex by inducing phosphorylation of some focal adhesion proteins.

**Product Info**

|                            |   |
|----------------------------|---|
| <b>Amount :</b>            | 0.1 mg  |
| <b>Purification :</b>      | Purified by protein-A affinity chromatography |
| <b>Storage condition :</b> | Store at 2-8°C. Do not freeze.                |

**Application Note**

**Flow Cytometry Immunohistochemistry (frozen sections) Functional Application** in vitro T cell costimulation