

### 30-1590: Anti-CD49d / Integrin alpha 4 Monoclonal Antibody (Clone:9F10)-Low Endotoxin

<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>	Low Endotoxin
<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