

## Antibody Data

|               |          |        |      |
|---------------|----------|--------|------|
| Product SKU:  | AGEL1737 | Clone: | 9F10 |
| Applications: | FCM      |        |      |
| Reactivity:   | Human    |        |      |

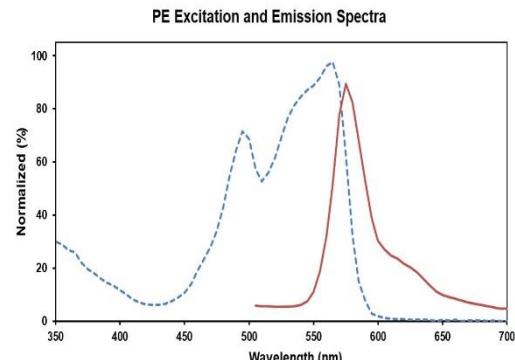
## Important Note:

Centrifuge before opening to ensure complete recovery of vial contents.

## Product Information:

|                         |  |
|-------------------------|--|
| <b>Alternate Names:</b> | Integrin alpha-4;CD49 antigen-like family member D;Integrin alpha-IV;VLA-4 subunit alpha;CD49d;ITGA4;  |
| <b>Uniprot ID:</b>      | P13612   |
| <b>Background:</b>      | CD49d is a 150 kD $\alpha$ integrin chain known as $\alpha$ 4 integrin or VLA-4 $\alpha$ chain. It forms a heterodimer with either integrin $\beta$ 1 ( $\alpha$ 4 $\beta$ 1, VLA-4) or $\beta$ 7 ( $\alpha$ 4 $\beta$ 7). CD49d is expressed broadly on T lymphocytes, B lymphocytes, monocytes, thymocytes, eosinophils, basophils, mast cells, NK cells, dendritic cells, and some non-hematopoietic cells, but not on normal red blood cells, platelets or neutrophils. VLA-4 binds to VCAM-1 (CD106) and fibronectin. $\alpha$ 4 $\beta$ 7 is the receptor for VCAM-1 and MAdCAM-1. CD49d participates in mononuclear cell trafficking to endothelial sites of inflammation and has roles in cell-cell interactions and cell adhesion to extracellular matrices. CD49d is involved in lymphocyte migration, T cell activation, and hematopoietic stem cell differentiation. CD49d is a marker to isolate pure populations of Treg cells due to its absence on Foxp3+ cells. |

|                      |                                |
|----------------------|--------------------------------|
| <b>Form:</b>         | Liquid                         |
| <b>Conjugation:</b>  | PE                             |
| <b>Size:</b>         | 20 Tests, 100 Tests, 200 Tests |
| <b>Host Species:</b> | Mouse                          |
| <b>Isotype:</b>      | Mouse IgG1, $\kappa$           |



|                         |   |
|-------------------------|---|
| <b>Isotype Control:</b> | PE Mouse IgG1, $\kappa$ Isotype Control[MOPC-21] [Product AGEL1737]                         |
| <b>Storage Buffer:</b>  | Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant. |
| <b>Shipping:</b>        | Biological ice pack at 4°C  |

**Stability & Storage:** Keep as concentrated solution. Store at 2~8°C and protected from prolonged exposure to light. Do not freeze. Centrifuge before opening to ensure complete recovery of vial contents. This product is guaranteed up to one year from purchase.

**Recommended Usage:** Each lot of this antibody is quality control tested by flow cytometric analysis. The amount of the reagent is suggested to be used 5  $\mu$ L of antibody per test (million cells in 100  $\mu$ L staining volume or per 100  $\mu$ L of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.