



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## PE Anti-Human CD49d Antibody[HP1/2]

|                    |  |                     |       |
|--------------------|--|---------------------|-------|
| <b>Catalog No.</b> | E-AB-F1359D                                | <b>Reactivity</b>   | Human |
| <b>Storage</b>     | Store at 2~8°C, Avoid freeze / thaw cycles | <b>Applications</b> | FCM   |

**Important Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Antigen Information

|                        |  |
|------------------------|--|
| <b>Alternate Names</b> | VLA-4 $\alpha$ chain, $\alpha$ 4 integrin, Integrin $\alpha$ 4 chain, ITGA4  |
| <b>Uniprot ID</b>      | P13612   |
| <b>Gene ID</b>         | 3676   |
| <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. |

### Product Details

|                                |  |
|--------------------------------|--|
| <b>Form</b>                    | Liquid   |
| <b>Size</b>                    | 20Tests/100Tests/100Tests $\times$ 2   |
| <b>Clone No.</b>               | HP1/2  |
| <b>Host</b>                    | Mouse  |
| <b>Isotype</b>                 | Mouse IgG2a, $\kappa$  |
| <b>Reactivity</b>              | Human  |
| <b>Application</b>             | FCM  |
| <b>Isotype Control</b>         | <a href="#">PE Mouse IgG2a, <math>\kappa</math> Isotype Control[C1.18.4] [Product E-AB-F09802D]</a>  |
| <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  |
| <b>Stability &amp; Storage</b> | Keep as concentrated solution.<br>Store at 2~8°C and protected from prolonged exposure to light.Do not freeze.<br>This product is guaranteed up to one year from purchase. |

### For Research Use Only

## Fluorophore

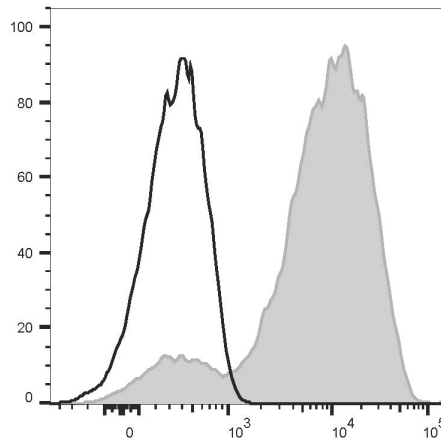
**Conjugation:** PE

PE is designed to be excited by the Blue (488 nm), Green (532 nm) and Yellow-Green (561 nm) lasers and detected using an optical filter centered near 575 nm (e.g., a 585/42 nm bandpass filter).

## 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 µL of antibody per test (million cells in 100 µL staining volume or per 100 µL of whole blood).** Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.

## Product data



Human peripheral blood lymphocytes are stained with PE Anti-Human CD49d Recombinant Antibody (filled gray histogram) or PE Mouse IgG2a,  $\kappa$  Isotype Control (empty black histogram).

## Related Information

1. Sample Preparation for Flow Cytometry <https://www.elabscience.com/List-detail-5594.html>
2. Staining Cell Surface Targets for Flow Cytometry <https://www.elabscience.com/List-detail-5568.html>
3. Flow Cytometry Troubleshooting Tips <https://www.elabscience.com/List-detail-5593.html>
4. How to select the appropriate detection channel through the spectrogram? <https://www.elabscience.com/List-detail-459742.html>