

## anti-human CD49d

The antibody BU49 reacts with the kD VLA-alpha-4 chain (lymphocyte homing receptor), which is associated with the CD29 molecule in the VLA-4 complex. This complex stimulates (or co-stimulates) specific tyrosine phosphorylation on focal adhesion kinase, paxillin, p59fy/p56lck and other moieties. The antigen is expressed on ALL and AML cells, T and B cells, monocytes, thymocytes and Langerhans cells.

The antibody does not react with human kidney or brain sections, but positively stains magignant melanoma cells.

CD49d is the receptor for VCAM-1, thrombospondin and fibronectin. It plays a role in ECM adhesion and in the movement and migration of lymphocyte subsets within the circulatory system. This makes CD49d clinically useful in studies of inflammatory responses, distribution of haematopoietic stem cells and tumour metastatic dispersement.

<b>Clone:</b>	BU49
<b>Isotype:</b>	Mouse IgG1
<b>Physical state:</b>	Purified from ascites by protein-G affinity chromatography
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Buffer:</b>	PBS with 15 mM sodium azide (pH 7.4)
<b>Storage Instruction:</b>	Store at 4 °C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
<b>Application:</b>	Flow Cytometry, Immunofluorescence, Immunoprecipitation
<b>Reference:</b>	Leucocyte Typing VI (1998) Ed Kishimoto, Garland Publishing NY
<b>Quantity:</b>	0.1 mg
<b>Order N°:</b>	H12469

**Warning:** Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32).

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