

anti-human CD49d

Monoclonal Antibody BU49 to CD49d (Human)

Cat-No: **21488491**

100 µg in 100 µl

Clone: BU49

Specificity:

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.

Antigen is expressed on ALL and AML cells, T and B cells, monocytes, thymocytes and Langerhans cells. Does not react with human kidney or brain sections, but positively stains malignant 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.

Isotype subclass: Mouse IgG1

Form: Purified by protein A chromatography.

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing 0.09% sodium azide, pH 7.2

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Aliquot and store at 4°C. For long-term aliquot and store at -20°C. Avoid freeze/thaw cycles.

Application:

Flow Cytometry
Immunofluorescence
Immunoprecipitation

References:

Leucocyte Typing VI (1998) Ed Kishimoto, Garland Publishing NY
Leucocyte Typing IV (1989) Ed Knapp, Oxford University Press

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). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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