# Datasheet

Mouse mAb to **CD48**
Clone **156-4H9**
Isotype **IgG1-κ**

## Source

A BALB/c mouse was immunized with stimulated human PBL.
Fusion partner: NS-1.

## Specifications

CD48 is a 45 kDa glycosyl phophatidyl-inositol (GPI)-anchored cell surface protein, highly expressed on lymphocytes and monocytes and weakly on granulocytes. Platelets, fibroblasts, epithelium and endothelium are negative. CD48 has a cellular function in adhesion via its receptor CD2 and a role in gamma/delta T-cell recognition as an accessory molecule and forms one of the markers for detecting the GPI anchoring defect in patients with paroxysmal nocturnal hemoglobinuria (PNH). 156-4H9 was typed in Kobe, Japan at the VI$^{th}$ International Workshop on human leucocyte differentiation antigens.

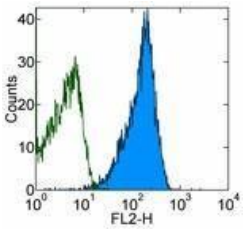


**Figure 1:** Human PBL stained with 156-4H9 (FACS).

## Species reactivity

Positive: human.

## Applications

CD48 can indicate the condition of paroxysmal nocturnal hemoglobinuria (PNH).

| Flow cytometry | Frozen sections | Immunofluorescence |
|---|---|---|
| + | + | + |

## Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02% sodium azide.
Stored at 4°C-8°C, shelf life is at least 24 months after purchase.

## Dilution advice

- Flow cytometry (0,5-1,0 µg/million cells in 0,1 ml).
- Immunofluorescence (0,5-1,0 µg/ml).
- Immunohistology (1-2 µg/ml for 30 min at RT; an appropriate antigen retrieval method for staining of formalin-fixed tissues has not been established to date).

## Positive control

Daudi, JY, Raji, Jurkat, and human lymphocytes. Human lymph node ad tonsil.

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## References


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- Yokoyama S et al. *J Immunol* **146(7)**:2192-2200 (1991).
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- Sandrin MS et al..*J Immunol*, **151(9)**:4606-4613 (1993).
- Vaughan HA et al, *Transplantation* **36**: 446-450 (1983).
- Vaughan HA et al, *Immunogenetics* **33**: 113-117 (1991).