

## Specification

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[9841922](http://www.uniprot.org/citations/9841922)). Participates in T-cell signaling transduction by associating with CD2 and efficiently bringing the Src family protein kinase LCK and LAT to the TCR/CD3 complex (PubMed: [19494291](http://www.uniprot.org/citations/19494291)). In turn, promotes LCK phosphorylation and subsequent activation (PubMed: [12007789](http://www.uniprot.org/citations/12007789)). Induces the phosphorylation of the cytoplasmic immunoreceptor tyrosine switch motifs (ITSMs) of CD244 initiating a series of signaling events that leads to the generation of the immunological synapse and the directed release of cytolytic granules containing perforin and granzymes by T-lymphocytes and NK- cells (PubMed: [27249817](http://www.uniprot.org/citations/27249817)).

#### **Cellular Location**

Cell membrane; Lipid-anchor, GPI-anchor. Membrane raft. Secreted

#### **Tissue Location**

Widely expressed on all hematopoietic cells.

### **CD48 (Pan Leukocyte Marker) Antibody - With BSA and Azide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **CD48 (Pan Leukocyte Marker) Antibody - With BSA and Azide - Images**

### **CD48 (Pan Leukocyte Marker) Antibody - With BSA and Azide - Background**

Reacts with human CD48, a 45kDa glycosyl phosphatidyl-inositol (GPI)-anchored cell surface protein. CD48 is strongly expressed on lymphocytes and monocytes and weakly on granulocytes but is absent on platelets, fibroblasts, epithelium and endothelium. CD48 is one of marker for detecting the defects of GPI anchoring structure on the patients with paroxysmal nocturnal hemoglobinuria (PNH) and serves as a low affinity ligand for CD2.

### **CD48 (Pan Leukocyte Marker) Antibody - With BSA and Azide - References**

Kishimoto T. et al., eds. Leukocyte Typing VI, p509-514, Garland Publishing, Inc, New York and London, 1997. | Yokoyama S et al. Expression of the Blast-1 activation/adhesion molecule and its identification as CD48. J Immunol 1991, 146(7):2192-2200. | Kwong YL et al. Flow cytometric measurement of glycosylphosphatidyl-inositol-linked surface proteins on blood cells of patients with paroxysmal nocturnal hemoglobinuria. Am J Clin Pathol 1994, 102(1):30-35 | Sandrin MS et al. CD48 is a low affinity ligand for human CD2. J Immunol 1993, 151(9):4606-4613. | Vaughan HA et al. The isolation of cDNA clones for CD48. Immunogenetics 1991, 33(2):113-117. | Vaughan HA et al. Hu Ly-M3--a human leukocyte antigen. Transplantation 1983, 36(4):446-450