**BACKGROUND**

CD48 is a GPI-anchored glycoprotein that may act as a low affinity receptor for CD2. CD48 is expressed on all peripheral blood T, B and null cells, thymocytes, eosinophils, a portion of bone marrow cells and some epithelial cells. Rat CD48 is found on hematopoietic and endothelial cells, and mouse CD48 is found on thymocytes, lymph node cells, most macrophages and bone marrow cells. CD48 has been shown to be associated with the tyrosine kinase Lck.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: CD48 (human) mapping to 1q23.3; Cd48 (mouse) mapping to 1H3.

**SOURCE**

CD48 (4H9) is a mouse monoclonal antibody raised against stimulated human leukocytes.

**PRODUCT**

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CD48 (4H9) is available conjugated to either phycoerythrin (sc-8397 PE) or fluorescein (sc-8397 FITC), 200 µg/ml, for IF, IHC(P) and FCM.

**APPLICATIONS**

CD48 (4H9) is recommended for detection of CD48 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein [1 ml of cell lysate]), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), flow cytometry (1 µg per 1 x 10⁶ cells) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for CD48 siRNA (h): sc-35008, CD48 siRNA (m): sc-35009, CD48 shRNA Plasmid (h): sc-35008-SH, CD48 shRNA Plasmid (m): sc-35009-SH, CD48 shRNA (h) Lentiviral Particles: sc-35008-V and CD48 shRNA (m) Lentiviral Particles: sc-35009-V.

Molecular Weight of CD48: 43 kDa.

Positive Controls: NAMALWA cell lysate: sc-2234, NCI-H929 whole cell lysate: sc-364786 or CTLL-2 cell lysate: sc-2242.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

**DATA**

**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.