

CD48 (OX78): sc-53053

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

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- Garnett, D., et al. 1993. The association of the protein tyrosine kinases p56^{lck} and p60^{lyn} with the glycosyl phosphatidylinositol-anchored proteins Thy-1 and CD48 in rat thymocytes is dependent on the state of cellular activation. *Eur. J. Immunol.* 23: 2540-2544.
- Katsuura, M., et al. 1994. Increased expression of CD48 on neutrophils activated in childhood patients with aplastic anemia. *Int. J. Hematol.* 60: 281-285.
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CHROMOSOMAL LOCATION

Genetic locus: Cd48 (mouse) mapping to 1 H3.

SOURCE

CD48 (OX78) is a rat monoclonal antibody raised against soluble recombinant CD48 of mouse origin.

PRODUCT

Each vial contains 200 µg IgG_{2a} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CD48 (OX78) is available conjugated to either phycoerythrin (sc-53053 PE) or fluorescein (sc-53053 FITC), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM.

APPLICATIONS

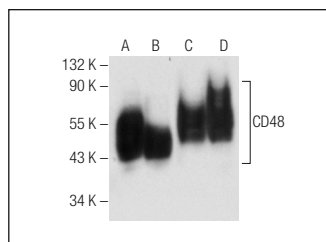
CD48 (OX78) is recommended for detection of CD48 of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and flow cytometry (1 µg per 1 x 10⁶ cells).

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

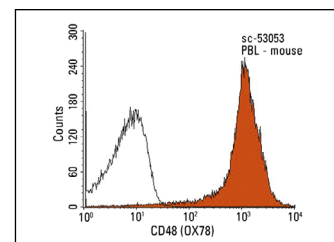
Molecular Weight of CD48: 43 kDa.

Positive Controls: CTLL-2 cell lysate: sc-2242, BW5147 cell lysate: sc-3800 or P388D1 whole cell lysate.

DATA



CD48 (OX78): sc-53053. Western blot analysis of CD48 expression in CTLL-2 (A), BW5147 (B), I-11.15 (C) and P388D1 (D) whole cell lysates.



CD48 (OX78): sc-53053. Indirect FCM analysis of mouse peripheral blood leukocytes stained with CD48 (OX78), followed by PE-conjugated goat anti-rat IgG: sc-3740. Black line histogram represents the isotype control, normal rat IgG_{2a}: sc-3883.

SELECT PRODUCT CITATIONS

- Muramoto, N., et al. 2018. Phenotypic diversification by enhanced genome restructuring after induction of multiple DNA double-strand breaks. *Nat. Commun.* 9: 1995.

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.