

CD48 (FL-243): sc-25592

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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4. Katsuura, M., Yokoyama, S., Shimizu, Y., Akiba, K., Mitsui, T., Sendo, D. and Hayasaka, K. 1994. Increased expression of CD48 on neutrophils activated in childhood patients with aplastic anemia. *Int. J. Hematol.* 60: 281-285.
5. Davis, S.J. and van der Merwe, P.A. 1996. The structure and ligand interactions of CD2: implications for T-cell function. *Immunol. Today* 17: 177-187.
6. Tissot, C., Rebouissou, C., Klein, B. and Mechti, N. 1997. Both human α/β and γ interferons upregulate the expression of CD48 cell surface molecules. *J. Interferon Cytokine Res.* 17: 17-26.

CHROMOSOMAL LOCATION

Genetic locus: CD48 (human) mapping to 1q23.3.

SOURCE

CD48 (FL-243) is a rabbit polyclonal antibody raised against amino acids 1-243 representing full length CD48 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

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.

APPLICATIONS

CD48 (FL-243) is recommended for detection of CD48 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) 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 shRNA Plasmid (h): sc-35008-SH and CD48 shRNA (h) Lentiviral Particles: sc-35008-V.

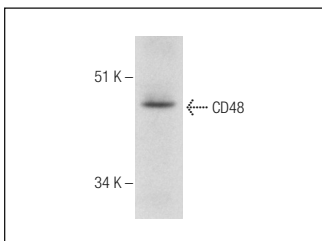
Molecular Weight of CD48: 43 kDa.

Positive Controls: human PBL whole cell lysate or Jurkat whole cell lysate: sc-2204.

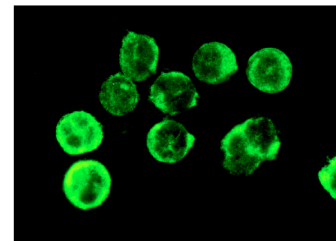
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



CD48 (FL-243): sc-25592. Western blot analysis of CD48 expression in human PBL whole cell lysate.



CD48 (FL-243): sc-25592. Immunofluorescence staining of methanol-fixed Ramos cells showing membrane localization.

PROTOCOLS

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

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Try **CD48 (5-4.8): sc-8400** or **CD48 (4H9): sc-8397**, our highly recommended monoclonal alternatives to CD48 (FL-243).