

CD42c (C-20): sc-7072

BACKGROUND

CD42a is a single-chain membrane glycoprotein that forms a noncovalent complex with CD42b. CD42b, also known as glycoprotein Ib α (GPIb α) is a membrane glycoprotein that is composed of α and β chains. The CD42b β chain is also designated CD42c and is expressed on platelets and megakaryocytes. CD42a and CD42b are also present on platelets and megakaryocytes and the complex is a major component of the platelet surface. The complex acts as a receptor for von Willebrand's factor and as a von Willebrand's factor-dependent adhesion receptor.

REFERENCES

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2. Roth, G.J. 1992. Platelets and blood vessels: the adhesion event. Immunol. Today 13: 100-105.
3. Hickey, M.J. and Roth, G.J. 1993. Characterization of the gene encoding human platelet glycoprotein IX. J. Biol. Chem. 268: 3438-3443.
4. Kelly, M.D., et al. 1994. Complementary DNA cloning of the alternatively expressed endothelial cell glycoprotein Ib β (GPIb β) and localization of the GPIb β gene to chromosome 22. J. Clin. Invest. 93: 2417-2424.
5. Yagi, M., et al. 1994. Structural characterization and chromosomal location of the gene encoding human platelet glycoprotein Ib β . J. Biol. Chem. 269: 17424-17427.
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7. Kunishima, S., et al. 1994. Bernard-Soulier syndrome Kagoshima: Ser 444 \rightarrow stop mutation of glycoprotein (GP) Ib α resulting in circulating truncated GPIb α and surface expression of GPIb β and GPIX. Blood 84: 3356-3362.

CHROMOSOMAL LOCATION

Genetic locus: GP1BB (human) mapping to 22q11.21.

SOURCE

CD42c (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of CD42c 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.

Blocking peptide available for competition studies, sc-7072 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4 $^{\circ}$ C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

CD42c (C-20) is recommended for detection of CD42c 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 CD42c siRNA (h): sc-42790, CD42c shRNA Plasmid (h): sc-42790-SH and CD42c shRNA (h) Lentiviral Particles: sc-42790-V.

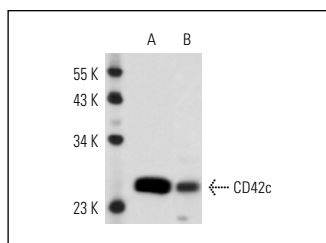
Molecular Weight of CD42c: 29 kDa.

Positive Controls: human platelet whole cell lysate: sc-363773 or human PBL whole cell lysate.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

DATA



CD42c (C-20): sc-7072. Western blot analysis of CD42c expression in human platelet (A) and human PBL whole cell lysate (B).

RESEARCH USE

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

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Try **CD42c (F-11): sc-377129**, our highly recommended monoclonal alternative to CD42c (C-20).