

CD42c (N-19): sc-7073

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

- Lopez, J.A., et al. 1988. The α and β chains of human platelet glycoprotein Ib are both transmembrane proteins containing a leucine-rich amino acid sequence. Proc. Natl. Acad. Sci. USA 85: 2135-2139.
- Roth, G.J. 1992. Platelets and blood vessels: the adhesion event. Immunol. Today 13: 100-105.

CHROMOSOMAL LOCATION

Genetic locus: GP1BB (human) mapping to 22q11.21; Gp1bb (mouse) mapping to 16 A3.

SOURCE

CD42c (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-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-7073 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CD42c (N-19) is recommended for detection of CD42c of mouse, rat and 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

CD42c (N-19) is also recommended for detection of CD42c in additional species, including bovine and porcine.

Suitable for use as control antibody for CD42c siRNA (h): sc-42790, CD42c siRNA (m): sc-42791, CD42c shRNA Plasmid (h): sc-42790-SH, CD42c shRNA Plasmid (m): sc-42791-SH, CD42c shRNA (h) Lentiviral Particles: sc-42790-V and CD42c shRNA (m) Lentiviral Particles: sc-42791-V.

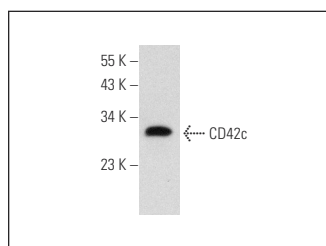
Molecular Weight of CD42c: 29 kDa.

Positive Controls: RAW 264.7 whole cell lysate: sc-2211, human platelet extract: sc-363773 or human PBL whole cell lysate.

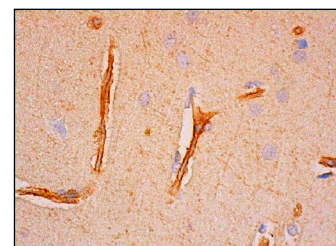
RECOMMENDED SECONDARY REAGENTS

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



CD42c (N-19): sc-7073. Western blot analysis of CD42c expression in human platelet extract.



CD42c (N-19): sc-7073. Immunoperoxidase staining of formalin fixed, paraffin-embedded human cerebral cortex tissue showing membrane and cytoplasmic staining of endothelial cells.

SELECT PRODUCT CITATIONS

- Cui, Y., et al. 2004. Involvement of ERK and p38 MAP kinase in AAPH-induced Cox-2 expression in HaCaT cells. Chem. Phys. Lipids 129: 43-52.

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 or our catalog for detailed protocols and support products.

MONOS
Satisfaction
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Try **CD42c (F-11): sc-377129**, our highly recommended monoclonal alternative to CD42c (N-19).