CD69 (C-19): sc-7085



The Power to Question

BACKGROUND

CD69 is expressed as a disulfide-linked homodimer called the activation inducer molecule (AIM), which is composed of two differentially glycosylated forms of a single protein. CD69 is among the earliest antigens to appear after activation of T cells, B cells and NK cells. CD69 is expressed constitutively on platelets, CD4+ or CD8+ thymocytes, and germinal center T cells, but is absent from resting lymphocytes.

REFERENCES

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- Lopez-Cabrera, M., Santis, A.G., Fernandez-Ruiz, E., Blacher, R., Esch, F., Sanchez-Mateos, P. and Sanchez-Madrid, F. 1993. Molecular cloning, expression, and chromosomal localization of the human earliest lymphocyte activation antigen AIM/CD69, a new member of the C-type animal lectin superfamily of signal-transmitting receptors. J. Exp. Med. 178: 537-547.
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 Multiple dimeric forms of human CD69 result from differential addition of N-glycans to typical (Asn-X-Ser/Thr) and atypical (Asn-X-cys) glycosylation motifs. J. Biol. Chem. 272: 23117-23122.

CHROMOSOMAL LOCATION

Genetic locus: CD69 (human) mapping to 12p13.31.

SOURCE

CD69 (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of CD69 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-7085 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as fluorescein conjugate for immunofluorescence, sc-7085 FITC, 200 $\mu g/1$ ml.

RESEARCH USE

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

APPLICATIONS

CD69 (C-19) is recommended for detection of CD69 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 CD69 siRNA (h): sc-42800, CD69 shRNA Plasmid (h): sc-42800-SH and CD69 shRNA (h) Lentiviral Particles: sc-42800-V.

Molecular Weight of CD69 dimer: 60 kDa.

Molecular Weight of glycosylated CD69 subunits: 27/33 kDa.

Positive Controls: HuT 78 whole cell lysate: sc-2208, K-562 whole cell lysate: sc-2203 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 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) 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.

STORAGE

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

PROTOCOLS

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



Try CD69 (D-3): sc-373799 or CD69 (A-5): sc-373798, our highly recommended monoclonal alternatives to CD69 (C-19).

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