

# CD69 (H-20): sc-31224

## 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<sup>+</sup> or CD8<sup>+</sup> thymocytes, and germinal center T cells, but is absent from resting lymphocytes.

## REFERENCES

1. Hamann, J., et al. 1993. Expression cloning of the early activation antigen CD69, a type II integral membrane protein with a C-type lectin domain. *J. Immunol.* 150: 4920-4927.
2. Lopez-Cabrera, M., et al. 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.

## CHROMOSOMAL LOCATION

Genetic locus: CD69 (human) mapping to 12p13.31; Cd69 (mouse) mapping to 6 F3.

## SOURCE

CD69 (H-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an N-terminal cytoplasmic domain of CD69 of mouse origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-31224 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

CD69 (H-20) is recommended for detection of CD69 of mouse and, to a lesser extent, rat and human 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)], 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).

Suitable for use as control antibody for CD69 siRNA (h): sc-42800, CD69 siRNA (m): sc-42801, CD69 shRNA Plasmid (h): sc-42800-SH, CD69 shRNA Plasmid (m): sc-42801-SH, CD69 shRNA (h) Lentiviral Particles: sc-42800-V and CD69 shRNA (m) Lentiviral Particles: sc-42801-V.

Molecular Weight of CD69 dimer: 60 kDa.

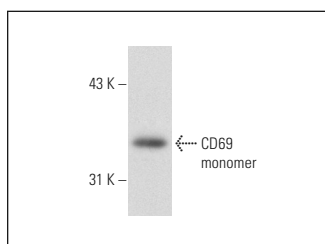
Molecular Weight of glycosylated CD69 subunits: 27/33 kDa.

Positive Controls: BW5147 cell lysate: sc-3800, WEHI-231 whole cell lysate: sc-2213 or CTLL-2 cell lysate: sc-2242.

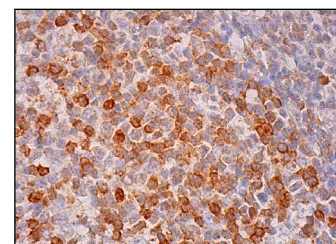
## RECOMMENDED SECONDARY REAGENTS

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



CD69 (H-20): sc-31224. Western blot analysis of CD69 expression in K-562 whole cell lysate.



CD69 (H-20): sc-31224. Immunoperoxidase staining of formalin fixed, paraffin-embedded human tonsil tissue showing membrane and cytoplasmic staining of subset of germinal center cells.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **CD69 (D-3): sc-373799** or **CD69 (A-5): sc-373798**, our highly recommended monoclonal alternatives to CD69 (H-20).