LIGHT (C-20): sc-7767



The Power to Question

BACKGROUND

Herpes virus entry mediator (HVEM), a type I transmembrane protein, is a member of the TNF receptor superfamily. HVEM mediates the entry of herpes simplex virus (HSV) 1 and 2 into T lymphocytes by serving as an attachment site for the HSV envelope glycoprotein D (gD). HVEM also binds two cellular ligands, secreted lymphotoxin α and light. LIGHT is a member of the TNF superfamily produced by activated T cells. This type II transmembrane protein competes with HSV glycoprotein D for binding to HVEM. LIGHT is closely related in sequence to lymphotoxin β (LT β) and can also bind to the LT β receptor. LIGHT is also known to induce apoptosis and suppress tumor formation.The gene encoding LIGHT maps to human chromosome 19p13.3.

REFERENCES

- Montgomery, R.I., et al. 1996. Herpes simplex virus-1 entry into cells mediated by a novel member of the TNF/NGF receptor family. Cell 87: 427-436.
- Marsters, S.A., et al. 1997. Herpes virus entry mediator, a member of the tumor necrosis factor receptor (TNF-R) family, interacts with members of the TNF-R-associated factor family and activates the transcription factors NFκB and AP-1. J. Biol. Chem. 30: 14029-14032.

CHROMOSOMAL LOCATION

Genetic locus: TNFSF14 (human) mapping to 19p13.3; Tnfsf14 (mouse) mapping to 17 D.

SOURCE

LIGHT (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of LIGHT of human 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-7767 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LIGHT (C-20) is recommended for detection of membrane and soluble forms of LIGHT of mouse, 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

LIGHT (C-20) is also recommended for detection of membrane and soluble forms of LIGHT in additional species, including equine and canine.

Suitable for use as control antibody for LIGHT siRNA (h): sc-39674, LIGHT siRNA (m): sc-39677, LIGHT shRNA Plasmid (h): sc-39674-SH, LIGHT shRNA Plasmid (m): sc-39677-SH, LIGHT shRNA (h) Lentiviral Particles: sc-39674-V and LIGHT shRNA (m) Lentiviral Particles: sc-39677-V.

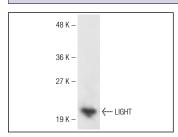
Molecular Weight of LIGHT: 29 kDa.

Positive Controls: mouse liver extract: sc-2256.

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



LIGHT (C-20): sc-7767. Western blot analysis of

SELECT PRODUCT CITATIONS

 Zhang, H., et al. 2014. Sohlh2 inhibits ovarian cancer cell proliferation by upregulation of p21 and downregulation of cyclin D1. Carcinogenesis 35: 1863-1871.

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.



Try **LIGHT (4E3): sc-293480**, our highly recommended monoclonal alternative to LIGHT (C-20).

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