

Grim19 (G-15): sc-324873

BACKGROUND

The GRIM family of proteins appear to be novel types of tumor suppressors. Grim19, which stands for gene associated with retinoic-interferon-induced mortality 19 protein, is also designated cell death-regulatory protein Grim-19 or NADH dehydrogenase ubiquinone 1 α subcomplex subunit 13. The Grim19 protein plays two roles within the cell. As a member of the interferon- β and retinoic acid-induced pathway of cell death, Grim19 induces apoptosis. As part of the mitochondrial complex I, Grim19 is essential for its assembly and electron transfer activity. It transfers electrons to the respiratory chain from NADH and plays a role in the interferon/all-*trans*-retinoic acid (IFN/RA) cell death pathway. It localizes primarily to the mitochondrion, but may translocate to the nucleus upon IFN/RA treatment. Grim19 may also be useful as a biological marker or target for drug development.

CHROMOSOMAL LOCATION

Genetic locus: NDUFA13 (human) mapping to 19p13.11; Ndufa13 (mouse) mapping to 8 B3.3.

SOURCE

Grim19 (G-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Grim19 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-324873 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

Grim19 (G-15) is recommended for detection of Grim19 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other NDUFA family members.

Grim19 (G-15) is also recommended for detection of Grim19 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for Grim19 siRNA (h): sc-60765, Grim19 siRNA (m): sc-60766, Grim19 shRNA Plasmid (h): sc-60765-SH, Grim19 shRNA Plasmid (m): sc-60766-SH, Grim19 shRNA (h) Lentiviral Particles: sc-60765-V and Grim19 shRNA (m) Lentiviral Particles: sc-60766-V.

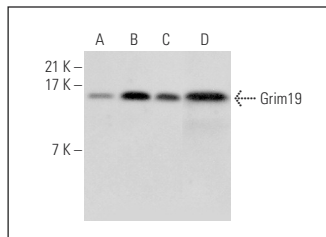
Molecular Weight of Grim19: 16 kDa.

Positive Controls: mouse liver extract: sc-2256, Hep G2 cell lysate: sc-2227 or human heart extract: sc-363763.

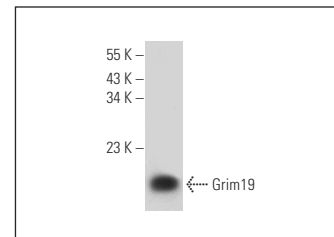
RECOMMENDED SECONDARY REAGENTS

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



Grim19 (G-15): sc-324873. Western blot analysis of Grim19 expression in Jurkat (A), K-562 (B) and Hep G2 (C) whole cell lysates and mouse liver tissue extract (D).



Grim19 (G-15): sc-324873. Western blot analysis of Grim19 expression in human heart tissue extract.

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
Guaranteed

Try **Grim19 (F-10): sc-365978** or **Grim19 (H-10): sc-514111**, our highly recommended monoclonal alternatives to Grim19 (G-15).