

# SUN2 fragment (Q-21): sc-134046

## BACKGROUND

SUN2 (Sad-1/UNC84 protein-like 2), also known as UNC84B (UNC84 homolog B), FRIGG, KIAA0668 or RAB5IP, is a 717 amino acid single-pass membrane protein that contains one SUN domain and localizes to the membrane of both the nucleus and the endosome. Widely expressed in a variety of tissues, including lung, muscle and heart, SUN2 interacts with Rab 5A and may play a role in homotypic endosome fusion. The SUN2 fragment is directed against a 49 kDa epitope mapping to the C-terminus of the SUN2 protein. The gene encoding SUN2 maps to human chromosome 22, which houses over 500 genes and is the second smallest human chromosome. Mutations in several of the genes that map to chromosome 22 are involved in the development of Phelan-McDermid syndrome, neurofibromatosis type 2, autism and schizophrenia. Additionally, translocations between chromosomes 9 and 22 may lead to the formation of the Philadelphia chromosome and the subsequent production of the novel fusion protein Bcr-Abl, a potent cell proliferation activator found in several types of leukemias.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: UNC84B (human) mapping to 22q13.1; Unc84b (mouse) mapping to 15 E1.

## SOURCE

SUN2 fragment (Q-21) is an affinity purified rabbit polyclonal antibody raised against synthetic SUN2 peptide of human origin.

## RESEARCH USE

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

## PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

## APPLICATIONS

SUN2 fragment (Q-21) is recommended for detection of SUN2 fragment 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for SUN2 siRNA (h): sc-76612, SUN2 siRNA (m): sc-153930, SUN2 shRNA Plasmid (h): sc-76612-SH, SUN2 shRNA Plasmid (m): sc-153930-SH, SUN2 shRNA (h) Lentiviral Particles: sc-76612-V and SUN2 shRNA (m) Lentiviral Particles: sc-153930-V.

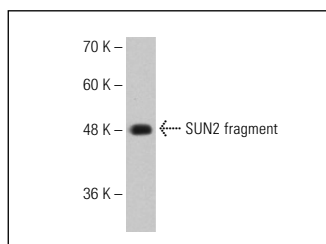
Molecular Weight of SUN2 fragment: 49 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, Jurkat whole cell lysate: sc-2204 or HeLa whole cell lysate: sc-2200.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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).

## DATA



SUN2 fragment (Q-21): sc-134046. Western blot analysis of SUN2 fragment expression in Hep G2 whole cell lysate.

## STORAGE

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

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Try **SUN2 (G-5): sc-377459** or **SUN2 (15A): sc-136427**, our highly recommended monoclonal alternatives to SUN2 fragment (Q-21).