

# SUN2 (G-12): sc-86892

## 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 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.

## RESEARCH USE

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

## SOURCE

SUN2 (G-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SUN2 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-86892 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

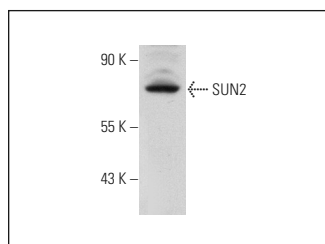
SUN2 (G-12) is recommended for detection of SUN2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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: 80 kDa.

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

## DATA



SUN2 (G-12): sc-86892. Western blot analysis of SUN2 expression in Jurkat 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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Satisfaction  
Guaranteed

Try **SUN2 (G-5): sc-377459** or **SUN2 (15A): sc-136427**, our highly recommended monoclonal alternatives to SUN2 (G-12).