SANTA CRUZ BIOTECHNOLOGY, INC.

Sulf-2 (A-18): sc-68837



BACKGROUND

Sulf-2 (sulfatase 2), also known as HSULF-2, is an extracellular endosulfatase belonging to the sulfatase family. Members of the sulfatase family each contain a conserved active site with a posttranslationally generated α -formyl-glycine that is essential for their catalytic activity. These enzymes are responsible for the hydrolysis of sulfate ester bonds. Sulf-1 (sulfatase 1) and Sulf-2 specifically interact with heparin sulfate proteoglycans (HSPGs) and hydrolyze the glucosamine-6-sulfate modifications, thus regulating the interactions of HSPGs with a variety of signaling molecules. As key components of cell surfaces and extracellular matrices, HSPGs modulate growth factor activities and thereby influence cell growth and differentiation. Additionally, HSPGs play a critical role in regulating tumor cell metastasis by mediating cell adhesion and the activities of growth and angiogenic factors. This suggests an important role for Sulf-1 and Sulf-2 in tumor progression.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SULF2 (human) mapping to 20q13.12; Sulf2 (mouse) mapping to 2 H3.

SOURCE

Sulf-2 (A-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Sulf-2 of human origin.

STORAGE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-68837 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Sulf-2 (A-18) is recommended for detection of Sulf-2 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).

Sulf-2 (A-18) is also recommended for detection of Sulf-2 in additional species, including equine, canine and bovine.

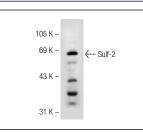
Suitable for use as control antibody for Sulf-2 siRNA (h): sc-63088, Sulf-2 siRNA (m): sc-63089, Sulf-2 shRNA Plasmid (h): sc-63088-SH, Sulf-2 shRNA Plasmid (m): sc-63089-SH, Sulf-2 shRNA (h) Lentiviral Particles: sc-63088-V and Sulf-2 shRNA (m) Lentiviral Particles: sc-63089-V.

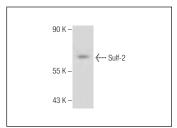
Molecular Weight (predicted) of Sulf-2: 100 kDa.

Molecular Weight (observed) of Sulf-2: 68 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, OV-90 whole cell lysate: sc-364191 or mouse liver extract: sc-2256.

DATA





Sulf-2 (A-18): sc-68837. Western blot analysis of Sulf-2 expression in Hep G2 whole cell lysate. Sulf-2 (A-18): sc-68837. Western blot analysis of Sulf-2 expression in OV-90 whole cell lysate.

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 Tr Satisfation m Guaranteed

Try **Sulf-2 (G-4): sc-271772**, our highly recommended monoclonal alternative to Sulf-2 (A-18).