OKL38 (C-16): sc-79999



The Power to Question

BACKGROUND

OKL38 (ovary, kidney and liver protein 38), also known as OSGIN1 (oxidative stress-induced growth inhibitor 1) or BDGI, is a 560 amino acid protein that is expressed ubiquitously, with highest levels in kidney, liver and ovary tissue. Existing as three alternatively spliced isoforms, OKL38 functions to regulate the differentiation and proliferation of cells, specifically by regulating apoptosis and cell death. Loss of OKL38 activity leads to a disruption in the balance between cell growth, cell proliferation and cell death, and is associated with rapid tumor growth and metastasis. The gene encoding OKL38 maps to human chromosome 16, which houses over 900 genes and comprises nearly 3% of the human genome.

REFERENCES

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- Ong, C.K., et al. 2004. Structural characterization of three novel rat OKL38 transcripts, their tissue distributions, and their regulation by human chorionic Gonadotropin. Endocrinology 145: 4763-4774.
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CHROMOSOMAL LOCATION

Genetic locus: OSGIN1 (human) mapping to 16q23.3; Osgin1 (mouse) mapping to 8 E1.

SOURCE

OKL38 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of OKL38 of human origin.

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-79999 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

OKL38 (C-16) is recommended for detection of OKL38 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).

OKL38 (C-16) is also recommended for detection of OKL38 in additional species, including equine and canine.

Suitable for use as control antibody for OKL38 siRNA (h): sc-75992, OKL38 siRNA (m): sc-75993, OKL38 shRNA Plasmid (h): sc-75992-SH, OKL38 shRNA Plasmid (m): sc-75993-SH, OKL38 shRNA (h) Lentiviral Particles: sc-75992-V and OKL38 shRNA (m) Lentiviral Particles: sc-75993-V.

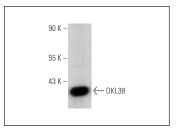
Molecular Weight of OKL38: 35 kDa.

Positive Controls: human liver extract: sc-363766.

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



OKL38 (C-16): sc-79999. Western blot analysis of OKL38 expression in human liver 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.

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