

OVCA2 (P-18): sc-54645

BACKGROUND

OVCA2 (ovarian cancer-associated gene 2 protein) is a 227 amino acid nuclear protein that belongs to the UPF0483 family. It is ubiquitously expressed and its expression is regulated by retinoids. OVCA2 interacts with apoptosis-related protein Bag-1, indicating that this protein may participate in cell proliferation. OVCA2 is evolutionarily conserved and shares homology with dihydrofolate reductases (DHFRs). Due to its structural and catalytic characteristics, OVCA2 is thought to act as a serine-hydrolase and, because of its reduced expression in ovarian and other tumor cell lines, it may play a role in tumor suppression. OVCA2 is downregulated in lung cancer cells and is proteolytically degraded in leukemia cell lines when exposed to RA and 4HPR.

REFERENCES

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5. Prowse, A.H., et al. 2002. OVCA2 is downregulated and degraded during retinoid-induced apoptosis. *Int. J. Cancer* 99: 185-192.
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8. Zaim, J., et al. 2005. Identification of new genes regulated by the Crt1 transcription factor, an effector of the DNA damage checkpoint pathway in *Saccharomyces cerevisiae*. *J. Biol. Chem.* 280: 28-37.
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CHROMOSOMAL LOCATION

Genetic locus: OVCA2 (human) mapping to 17p13.3; Ovca2 (mouse) mapping to 11 B5.

SOURCE

OVCA2 (P-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of OVCA2 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 IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-54645 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

OVCA2 (P-18) is recommended for detection of OVCA2 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).

OVCA2 (P-18) is also recommended for detection of OVCA2 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for OVCA2 siRNA (h): sc-62729, OVCA2 siRNA (m): sc-62730, OVCA2 shRNA Plasmid (h): sc-62729-SH, OVCA2 shRNA Plasmid (m): sc-62730-SH, OVCA2 shRNA (h) Lentiviral particles: sc-62729-V and OVCA2 shRNA (m) Lentiviral Particles: sc-62730-V.

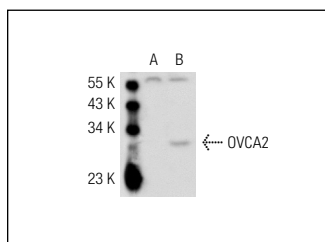
Molecular Weight of OVCA2: 25 kDa.

Positive Controls: OVCA2 (h): 293T Lysate: sc-115821.

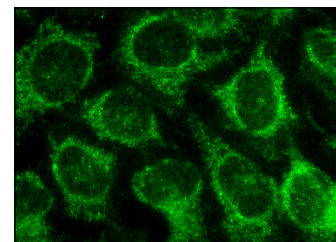
RECOMMENDED SECONDARY REAGENTS

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



OVCA2 (P-18): sc-54645. Western blot analysis of OVCA2 expression in non-transfected: sc-117752 (A) and human OVCA2 transfected: sc-115821 (B) 293T whole cell lysates.



OVCA2 (P-18): sc-54645. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

RESEARCH USE

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