

DOC1 (N-17): sc-102494



The Power to Question

BACKGROUND

DOC1 (downregulated in ovarian cancer-1), also known as Filamin A-interacting protein 1-like and GPBP-interacting protein, is a 1,135 amino acid protein that was originally cloned from normal ovarian epithelial cell lines, but was consistently found to be absent in ovarian cancer cell lines. Knock-down of DOC1 mRNA results in suppression of the EMAP II-stimulated gene expression of DOC1 as well as four other genes, suggesting that DOC1 may mediate the effect of EMAP II. The gene encoding DOC1 is upregulated in endothelial cells treated with angiogenesis inhibitors, which alludes to its potential benefit as an antivascular reagent for cancer therapy. There are five isoforms of DOC1 that exist as a result of alternative splicing events.

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RESEARCH USE

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

CHROMOSOMAL LOCATION

Genetic locus: FILIP1L (human) mapping to 3q12.1; Filip1l (mouse) mapping to 16 C1.1.

SOURCE

DOC1 (N-17) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of DOC1 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-102494 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DOC1 (N-17) is recommended for detection of DOC1 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 DOC1 siRNA (h): sc-78325, DOC1 shRNA Plasmid (h): sc-78325-SH and DOC1 shRNA (h) Lentiviral Particles: sc-78325-V.

Molecular Weight of DOC1: 130 kDa.

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). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.