

FOCAD (S-13): sc-138800

BACKGROUND

Focal adhesions are identified as areas within the plasma membrane of tissue culture cells that adhere tightly to the underlying substrate. *In vivo*, these regions are involved in the adhesion of cells to the extracellular matrix. FOCAD (focadhesin), also known as KIAA1797, is a 1,801 amino acid multi-pass membrane focal adhesion complex protein expressed that is ubiquitously expressed. FOCAD is suggested to function as a tumor suppressor in gliomas and may be involved in neurodegeneration leading to Alzheimer's disease. Mutations in the gene encoding FOCAD is thought to be associated with polyposis and colorectal cancer development. FOCAD is encoded by a gene located on human chromosome 9, which consists of about 145 million bases and 4% of the human genome and encodes nearly 900 genes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FOCAD (human) mapping to 9p21.3; BC057079 (mouse) mapping to 4 C4.

SOURCE

FOCAD (S-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FOCAD 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-138800 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FOCAD (S-13) is recommended for detection of FOCAD of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

FOCAD (S-13) is also recommended for detection of FOCAD in additional species, including equine.

Suitable for use as control antibody for FOCAD siRNA (h): sc-92934, FOCAD siRNA (m): sc-141633, FOCAD shRNA Plasmid (h): sc-92934-SH, FOCAD shRNA Plasmid (m): sc-141633-SH, FOCAD shRNA (h) Lentiviral Particles: sc-92934-V and FOCAD shRNA (m) Lentiviral Particles: sc-141633-V.

Molecular Weight of FOCAD: 200 kDa.

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) 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.

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.