

HABP4 (D-13): sc-138016

BACKGROUND

The intracellular hyaluronan-binding protein 4 (HABP4 or iHABP4), also designated Ki-1/57, is a cytoplasmic and nuclear protein that is phosphorylated on serine and threonine residues. HABP4 is expressed as a protein of 413 amino acids and is phosphorylated by phorbol 12-myristate 13-acetate (PMA)-activated PKC isoforms at Thr-354 and Thr-375. HABP4 interacts with hyaluron, the adaptor protein RACK1, the transcription factor MEF2C, and the chromatin remodeling factor CHD3, suggesting that it might be involved in the regulation of transcription. However, its actual function has yet to be elucidated. HABP4 is highly expressed in brain, heart, and kidney, and moderately expressed in skeletal muscle. Also expressed in a variety of tumor cell lines and in activated but not resting leukocytes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: HABP4 (human) mapping to 9q22.32.

RESEARCH USE

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

SOURCE

HABP4 (D-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of HABP4 of human origin.

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-138016 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

HABP4 (D-13) is recommended for detection of HABP4 of 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); non cross-reactive with HABP2.

Suitable for use as control antibody for HABP4 siRNA (h): sc-92886, HABP4 shRNA Plasmid (h): sc-92886-SH and HABP4 shRNA (h) Lentiviral Particles: sc-92886-V.

Molecular Weight (predicted) of HABP4: 46 kDa.

Molecular Weight (observed) of HABP4: 53 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.

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.