

USHBP1 (Q-14): sc-161260

BACKGROUND

USHBP1 (Usher syndrome 1C binding protein 1), also known as MCC2 or AIEBP (autoimmune enteropathy (AIE)-75 binding protein protein), is a 703 amino acid member of the MCC family. USHBP1 has highest expression in heart, and moderate to low expression in skeletal muscle, kidney, liver, small intestine, placenta and lung. USHBP1 is a novel homologue of MCC (mutated in colon cancer) tumor suppressor and its C-terminus interacts with the first PDZ domain of USH1C (Usher syndrome type 1C). MCC is a coiled-coil protein that negatively regulates cell cycle progression during the G1 to S transition via NF κ B signaling pathway. The gene encoding USHBP1 is located on human chromosome 19, which consists of over 63 million bases, houses approximately 1,400 genes and is recognized for having the greatest gene density of the human chromosomes.

REFERENCES

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5. Hirai, A., Tada, M., Furuuchi, K., Ishikawa, S., Makiyama, K., Hamada, J., Okada, F., Kobayashi, I., Fukuda, H. and Moriuchi, T. 2004. Expression of AIE-75 PDZ-domain protein induces G₂/M cell cycle arrest in human colorectal adenocarcinoma SW480 cells. *Cancer Lett.* 211: 209-218.

CHROMOSOMAL LOCATION

Genetic locus: USHBP1 (human) mapping to 19p13.11; Ushbp1 (mouse) mapping to 8 B3.3.

SOURCE

USHBP1 (Q-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of USHBP1 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.

PROTOCOLS

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

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-161260 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

USHBP1 (Q-14) is recommended for detection of USHBP1 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).

USHBP1 (Q-14) is also recommended for detection of USHBP1 in additional species, including equine and canine.

Suitable for use as control antibody for USHBP1 siRNA (h): sc-97303, USHBP1 siRNA (m): sc-154940, USHBP1 shRNA Plasmid (h): sc-97303-SH, USHBP1 shRNA Plasmid (m): sc-154940-SH, USHBP1 shRNA (h) Lentiviral Particles: sc-97303-V and USHBP1 shRNA (m) Lentiviral Particles: sc-154940-V.

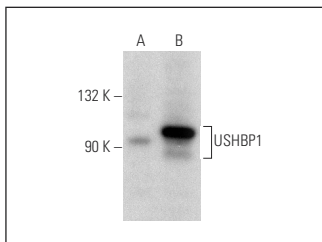
Molecular Weight of USHBP1: 76 kDa.

Positive Controls: USHBP1 (h): 293T Lysate: sc-114174.

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



USHBP1 (Q-14): sc-161260. Western blot analysis of USHBP1 expression in non-transfected: sc-117752 (A) and human USHBP1 transfected: sc-114174 (B) 293T whole cell lysates.

RESEARCH USE

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