

FBP21 (C-17): sc-84247

BACKGROUND

WW domains mediate protein-protein interactions through binding to short proline-rich motifs within their respective ligands. The WW domain is composed of approximately 40 amino acids that fold as a stable, triple stranded β -sheet without disulfide bridges or cofactors. Proteins containing the WW domain are found in a wide range of signaling proteins, which can be localized within the cytoplasm or the nucleus. FBP21, also known as WW domain-binding protein 4, is a 376 amino acid protein that contains 2 WW domains and is characterized as a spliceosome-associated protein. FBP21 localizes to nucleus speckles and is thought to play a role in cross-intron bridging of U1 and U2 snRNPs in the mammalian A complex. Specifically, FBP21 interacts via its WW domains with the proline-rich domain of Sam 68 and also binds splicing factors Sm B/B', hnRNP C1/C2 and splicing factor 1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: WBP4 (human) mapping to 13q14.11; Wbp4 (mouse) mapping to 14 D3.

SOURCE

FBP21 (C-17) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of FBP21 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 100 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-84247 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FBP21 (C-17) is recommended for detection of FBP21 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).

FBP21 (C-17) is also recommended for detection of FBP21 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for FBP21 siRNA (h): sc-75004, FBP21 siRNA (m): sc-145096, FBP21 shRNA Plasmid (h): sc-75004-SH, FBP21 shRNA Plasmid (m): sc-145096-SH, FBP21 shRNA (h) Lentiviral Particles: sc-75004-V and FBP21 shRNA (m) Lentiviral Particles: sc-145096-V.

Molecular Weight of FBP21: 43 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) 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.

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.