SANTA CRUZ BIOTECHNOLOGY, INC.

AIP2 (H-300): sc-30052

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The Power to Question

BACKGROUND

Atrophin interacting proteins (AIPs) bind to atrophin-1 in the vicinity of the polyglutamine tract. The WW domain consists of 35-40 amino acids and is characterized by four well conserved aromatic residues, two of which are tryptophan. All five AIPs contain multiple WW domains and can be divided into two distinct classes. AIP1 and AIP3 (WWP3) are MAGUK-like multidomain proteins containing a guanylate kinase-like region, two WW domains, and multiple PDZ domains. AIP2 (WWP2), AIP4 (itchy), and AIP5 (WWP1) are highly homologous, each having four WW domains and a HECT domain characteristic of ubiquitin ligases. These interactors are similar to isolated Huntingtin-interacting proteins, suggesting commonality of function between two families of proteins responsible for similar diseases.

REFERENCES

1. Bork, P. and Sudol, M. 1994. The WW domain: a signalling site in dystrophin? Trends Biochem. Sci. 19: 531-533.
2. André, B. and Springael, J.-Y. 1994. WWP, a new amino acid motif present in single or multiple copies in various proteins including dystrophin and the SH3-binding Yes-associated protein YAP65. Biochem. Biophys. Res. Commun. 205: 1201-1205.

CHROMOSOMAL LOCATION

Genetic locus: WWP2 (human) mapping to 16q22.1; Wwp2 (mouse) mapping to 8 D3.

SOURCE

AIP2 (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of AIP2 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.

APPLICATIONS

AIP2 (H-300) is recommended for detection of AIP2 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).

AIP2 (H-300) is also recommended for detection of AIP2 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for AIP2 siRNA (h): sc-40362, AIP2 siRNA (m): sc-40363, AIP2 shRNA Plasmid (h): sc-40362-SH, AIP2 shRNA Plasmid (m): sc-40363-SH, AIP2 shRNA (h) Lentiviral Particles: sc-40362-V and AIP2 shRNA (m) Lentiviral Particles: sc-40363-V.

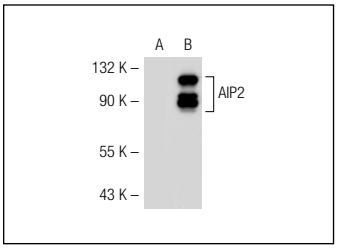
Molecular Weight of AIP2: 99-110 kDa.

Positive Controls: AIP2 (h2): 293T Lysate: sc-116898.

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.

DATA



AIP2 (H-300): sc-30052. Western blot analysis of AIP2 expression in non-transfected: sc-117752 (**A**) and human AIP2 transfected: sc-116898 (**B**) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

1. Chen, A., et al. 2009. The HECT-type E3 ubiquitin ligase AIP2 inhibits activation-induced T-cell death by catalyzing EGR2 ubiquitination. Mol. Cell. Biol. 29: 5348-5356.
2. Akimov, V., et al. 2011. Characterization of ubiquitination dependent dynamics in growth factor receptor signaling by quantitative proteomics. Mol. Biosyst. 7: 3223-3233.

STORAGE

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

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.