SANTA CRUZ BIOTECHNOLOGY, INC.

AIP2 (V-20): sc-11897



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 4 well conserved aromatic residues, 2 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.
- Andre, 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.
- Hofmann, K. and Bucher, P. 1995. The Rsp5-domain is shared by proteins of diverse functions. FEBS Lett. 358: 153-157.
- Pirozzi, G., McConnell, S.J., Uveges, A.J., Carter, J.M., Sparks, A.B., Kay, B.K. and Fowlkes, D.M. 1997. Identification of novel human WW domaincontaining proteins by cloning of ligand targets. J. Biol. Chem. 272: 14611-14616.

CHROMOSOMAL LOCATION

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

SOURCE

AIP2 (V-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of AIP2 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-11897 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **D0 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.

APPLICATIONS

AIP2 (V-20) 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 (V-20) is also recommended for detection of AIP2 in additional species, including equine, canine, bovine and porcine.

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 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



AIP2 (V-20): sc-11897. Western blot analysis of AIP2 expression in non-transfected: sc-117752 (**A**) and human AIP2 transfected: sc-116898 (**B**) 293T whole cell lysates.

RESEARCH USE

MONOS

Satisfation

Guaranteed

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

Try **AIP2 (A-3):** sc-398090 or **AIP2 (G-9):** sc-166240, our highly recommended monoclonal alternatives to AIP2 (V-20).