

AIP5 (P-16): sc-11893

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.

CHROMOSOMAL LOCATION

Genetic locus: WWP1 (human) mapping to 8q21.3; Wwp1 (mouse) mapping to 4 A3.

SOURCE

AIP5 (P-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of AIP5 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-11893 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

AIP5 (P-16) is recommended for detection of AIP5 of human and, to a lesser extent, mouse and rat 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).

AIP5 (P-16) is also recommended for detection of AIP5 in additional species, including canine.

Suitable for use as control antibody for AIP5 siRNA (h): sc-40366, AIP5 siRNA (m): sc-40367, AIP5 shRNA Plasmid (h): sc-40366-SH, AIP5 shRNA Plasmid (m): sc-40367-SH, AIP5 shRNA (h) Lentiviral Particles: sc-40366-V and AIP5 shRNA (m) Lentiviral Particles: sc-40367-V.

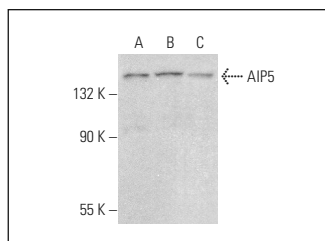
Molecular Weight of AIP5: 105 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201, HeLa whole cell lysate: sc-2200 or HEK293 whole cell lysate: sc-45136.

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



AIP5 (P-16): sc-11893. Western blot analysis of AIP5 expression in HeLa (A), HEK293 (B) and PC-12 (C) whole cell lysates.

SELECT PRODUCT CITATIONS

1. Komuro, A., et al. 2004. Negative regulation of transforming growth factor- β (TGF- β) signaling by WW domain-containing protein 1 (WWP1). *Oncogene* 23: 6914-6923.

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.

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Try **AIP5 (F-3): sc-390897** or **AIP5 (5AA): sc-100679**, our highly recommended monoclonal alternatives to AIP5 (P-16).