SANTA CRUZ BIOTECHNOLOGY, INC.

WIPI-1 (K-20): sc-83064



BACKGROUND

WIPI-1 (WD repeat domain, phosphoinositide interacting-1), also known as WIPI1, ATG18 or WIPI49, is a 446 amino acid protein that localizes to cytoplasmic vesicles, endosomes, Clathrin-coated vesicles and the *trans*-Golgi network. Ubiquitously expressed with highest expression in heart, testis, placenta, pancreas and skeletal muscle, WIPI-1 is thought to play a role in autophagy and may regulate protein trafficking in certain recycling pathways. In addition, WIPI-1 interacts with androgen and estrogen receptors (ARs and ERs, respectively) and, through this interaction, may modify receptor function. WIPI-1 contains three WD repeats and has a 7-bladed propeller structure with a conserved motif that facilitates its interaction with other proteins. WIPI-1 is expressed as two isoforms, designated α and β , and its expression is upregulated in a variety of tumors, suggesting a role in carcinogenesis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: WIPI1 (human) mapping to 17q24.2; Wipi1 (mouse) mapping to 11 E1.

SOURCE

WIPI-1 (K-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of WIPI-1 of human origin.

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

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-83064 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

WIPI-1 (K-20) is recommended for detection of WIPI-1 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); non cross-reactive with other WIPI family members.

WIPI-1 (K-20) is also recommended for detection of WIPI-1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for WIPI-1 siRNA (h): sc-72210, WIPI-1 siRNA (m): sc-72211, WIPI-1 shRNA Plasmid (h): sc-72210-SH, WIPI-1 shRNA Plasmid (m): sc-72211-SH, WIPI-1 shRNA (h) Lentiviral Particles: sc-72210-V and WIPI-1 shRNA (m) Lentiviral Particles: sc-72211-V.

Molecular Weight of WIPI-1: 49 kDa.

Positive Controls: PC-12 cell lysate: sc-2250.

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) Immunofluo-rescence: use donkey anti-goat IgG-TR: sc-2783 (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.

MONOS Satisfation Guaranteed

Try **WIPI-1 (F-6): sc-376205** or **WIPI-1 (38-W): sc-100901**, our highly recommended monoclonal qiamghalternatives to WIPI-1 (K-20).