**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**


**CHROMOSOMAL LOCATION**

Genetic locus: WIPI1 (human) mapping to 17q24.2; WIpi1 (mouse) mapping to 11 E1.

**SOURCE**

WIPI-1 (38-W) is a mouse monoclonal antibody raised against recombinant WIPI-1 of human origin.

**PRODUCT**

Each vial contains 100 µg IgG2b kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**STORAGE**

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

**APPLICATIONS**

WIPI-1 (38-W) 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), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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: WIPI-1 (h): 293T lysate: sc-115851 or PC-12 cell lysate: sc-2750.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

**DATA**

![Western Blot Analysis](image)

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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

**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.