

# WIPI-3 (P-20): sc-83073

## BACKGROUND

WD-repeats are motifs that are found in a variety of proteins and are characterized by a conserved core of 40-60 amino acids that commonly form a tertiary propeller structure. While proteins that contain WD-repeats participate in a wide range of cellular functions, they are generally involved in regulatory mechanisms concerning chromatin assembly, cell cycle control, signal transduction, RNA processing, apoptosis and vesicular trafficking. WIPI-3 (WD repeat domain phosphoinositide-interacting protein 3), also known as WD repeat-containing protein 45-like or WIPI49-like protein, is a 344 amino acid protein that is ubiquitously expressed with highest levels found in pancreas, heart and skeletal muscle. Upregulated in uterine and ovarian cancer, WIPI-3 contains two WD domains, seven WD40 domains, and is encoded by a gene that maps to human chromosome 17. Chromosome 17 comprises over 2.5% of the human genome, encodes over 1,200 genes and is associated with two key tumor suppressor genes, namely, p53 and BRCA1.

## CHROMOSOMAL LOCATION

Genetic locus: WDR45L (human) mapping to 17q25.3; Wdr45l (mouse) mapping to 11 E2.

## SOURCE

WIPI-3 (P-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of WIPI-3 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-83073 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

WIPI-3 (P-20) is recommended for detection of WIPI-3 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); non cross-reactive with other WIPI family members.

WIPI-3 (P-20) is also recommended for detection of WIPI-3 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for WIPI-3 siRNA (h): sc-72214, WIPI-3 siRNA (m): sc-72215, WIPI-3 shRNA Plasmid (h): sc-72214-SH, WIPI-3 shRNA Plasmid (m): sc-72215-SH, WIPI-3 shRNA (h) Lentiviral Particles: sc-72214-V and WIPI-3 shRNA (m) Lentiviral Particles: sc-72215-V.

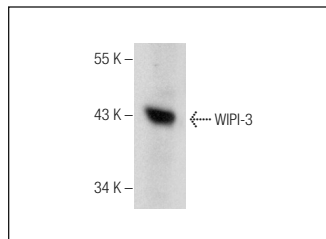
Molecular Weight of WIPI-3: 38 kDa.

Positive Controls: Mouse liver extract: sc-2256.

## 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



WIPI-3 (P-20): sc-83073. Western blot analysis of WIPI-3 expression in mouse liver tissue extract.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **WIPI-3 (B-7): sc-514194**, our highly recommended monoclonal alternative to WIPI-3 (P-20).