Anti-WIPI1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015167

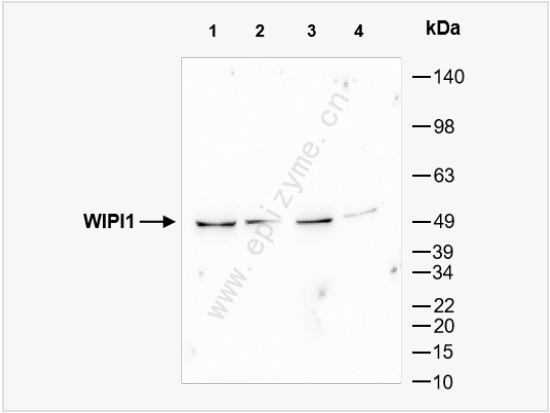
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	84G66B56
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human WIPI1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-WIPI1 Rabbit mAb [84G66B56] is for research use only and not for use in diagnostic or therapeutic procedures.

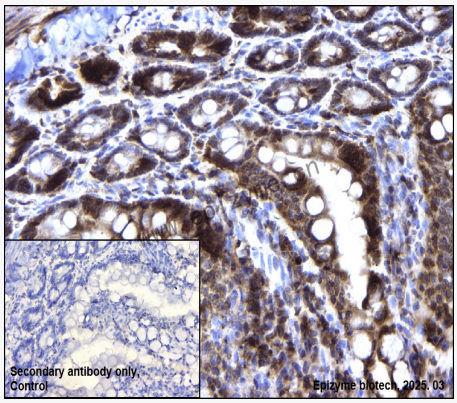
Protein Information

Synonyms	ATG 18, ATG18, Atg18 protein homolog, ATG18A, FLJ10055, WD repeat domain phosphoinositide interacting 1, WD repeat domain phosphoinositide interacting protein 1, WD repeat domain phosphoinositide-interacting protein 1, WD40 repeat protein interacting with phosphoinositides of 49 kDa, WD40 repeat protein interacting with phosphoInositides of 49kDa, WIPI 1 alpha, WIPI 1, WIPI 49, WIPI 49 kDa, WIPI-1, wipi1, WIPI1_HUMAN, WIPI49.
Calculated MW	Calculated MW: 49 kDa; Observed MW: 49 kDa
Uniprot ID	Q5MNZ9
Gene ID	55062
Background	This gene encodes a WD40 repeat protein. Members of the WD40 repeat family are key components of many essential biologic functions. They regulate the assembly of multiprotein complexes by presenting a beta-propeller platform for simultaneous and reversible protein-protein interactions. Members of the WIPI subfamily of WD40 repeat proteins have a 7-bladed propeller structure and contain a conserved motif for interaction with phospholipids. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016].
Cellular Location	Golgi apparatus > trans-Golgi network. Endosome. Cytoplasmic vesicle > clathrin-coated vesicle. Trans elements of the Golgi and peripheral endosomes. Dynamically cycles through these compartments and is susceptible to conditions that modulate membrane flux. Enriched in clathrin-coated vesicles.
Tissue Location	Ubiquitously expressed. Highly expressed in skeletal muscle, heart, testis, pancreas and placenta. Highly expressed in G361, Sk-mel-28, Sk-mel-13, WM852 and WM451 cells. Up-regulated in a variety of tumor tissues.

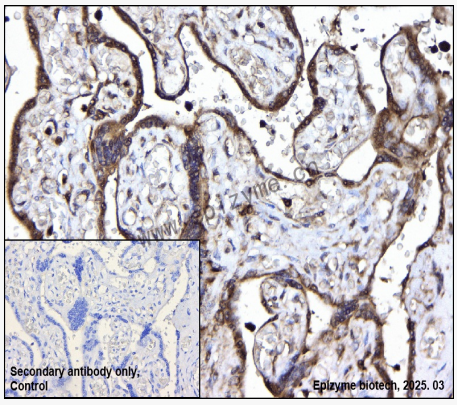
Validation Images



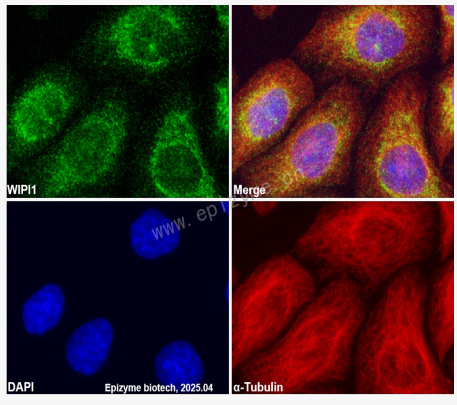
Western Blot - Anti-WIPI1 Rabbit mAb [84G66B56]
All lanes: R015167 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 4: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 49 kDa
Observed band size: 49 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-WIPI1 Rabbit mAb [84G66B56]
Sample: Paraformaldehyde-fixed, paraffin embedded rat colon tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015167 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-WIPI1 Rabbit mAb [84G66B56]
Sample: Paraformaldehyde-fixed, paraffin embedded human placenta tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015167 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-WIPI1 Rabbit mAb [84G66B56]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R015167 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).