



WIPI1 Monoclonal Antibody

Catalog No	YP-mAb-10590
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	WIPI1 WIPI49
Immunogen	Synthetic Peptide of WIPI1
Specificity	WIPI1 Monoclonal Antibody detects endogenous levels of WIPI1
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	WIPI-1;WIPI 49 kDa;WIPI 1;WD repeat domain phosphoinositide-interacting protein 1;Atg18 protein homolog;WIPI1;WIPI1 WIPI49;WD repeat domain; phosphoinositide interacting 1; phosphoinositide interacting 1
Observed Band	48kD
Calculated Molecular Weight	48kD
Cell Pathway	Golgi apparatus, trans-Golgi network. Endosome. Cytoplasmic vesicle, clathrin-coated vesicle. Preautophagosomal structure membrane ; Peripheral membrane protein. Cytoplasm, cytoskeleton. 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. Upon starvation-induced autophagy, accumulates at subcellular structures in the cytoplasm: enlarged vesicular and lasso-like structures, and large cup-shaped structures predominantly around the nucleus. Recruitment to autophagic membranes is controlled by MTMR14. Labile microtubules specifically recruit markers of autophagosome formation like WIPI1, whereas mature autophagosomes may bind to stable microtubules
Tissue Specificity	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.



Function

function: May play a role in autophagy. May regulate the trafficking of proteins involved in the mannose-6-phosphate receptor (MPR) recycling pathway., similarity: Contains 3 WD repeats., subcellular location: 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., subunit: Probably interacts with androgen (AR) and the estrogen receptor (ER). Binds PtdIns3P and to a lesser extent, PtdIns3,5P2 and PtdIns5P in vitro. Interaction with PtdIns3P is required for recruitment to membranes., tissue specificity: 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.,

Background

WD repeat domain, phosphoinositide interacting 1(WIP1) Homo sapiens 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 WIP1 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],

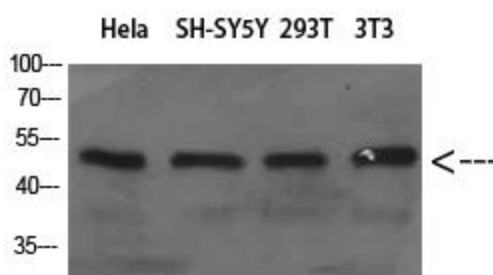
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using WIP1 Monoclonal Antibody