

Rabbit WIPI1 Polyclonal Antibody | anti-WIPI1 antibody

WIPI1 Antibody

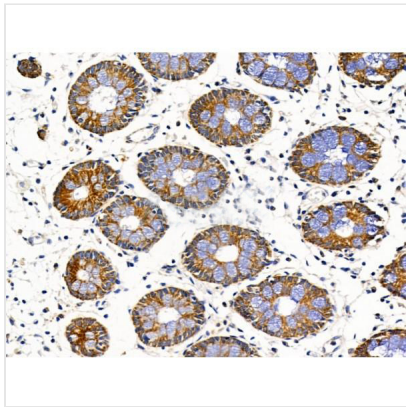
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31239	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(88%), Horse(100%), Rabbit(100%), Dog(88%), Chicken(86%)	ELISA

PRODUCT SYNONYMS

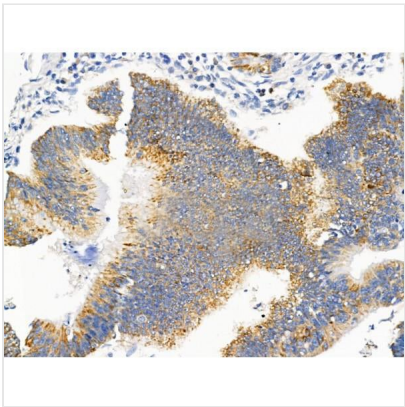
WIPI1; Polyclonal Antibody; WIPI1 Antibody; ATG 18; ATG18; Atg18 protein homolog; ATG18A; FLJ10055; WD repeat domain phosphoinositide interacting 1; WD repeat domain phosphoinositide interacting protein 1; WD repeat domain phosphoinositide-interacting protein 1; WD40 repeat protein interacting with phosphoinositides 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; anti-WIPI1 antibody

PRODUCT SPECIFICATIONS

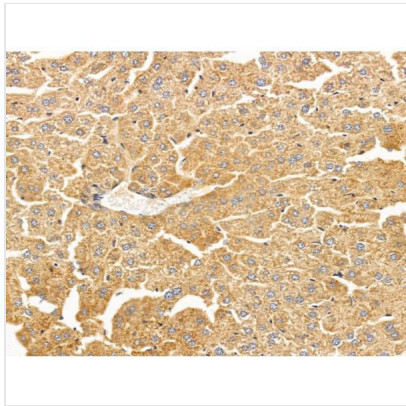
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(88%), Horse(100%), Rabbit(100%), Dog(88%), Chicken(86%)
Clonality	Polyclonal
Isotype	IgG
Specificity	WIPI1 Antibody detects endogenous levels of total WIPI1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	446
Applicable Applications for anti-WIPI1 antibody	ELISA
Application Notes	WB: 1:500-1:2000 IHC: 1:50-1:200 ELISA(peptide): 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human WIPI1, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



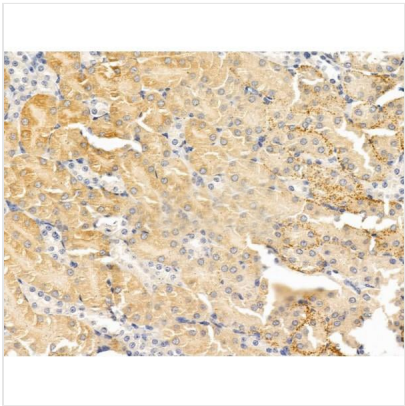
IHC (Immunohistochemistry-Paraffin)
AAA31239 at 1/100 staining Human colorectal cancer and adjacent normal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



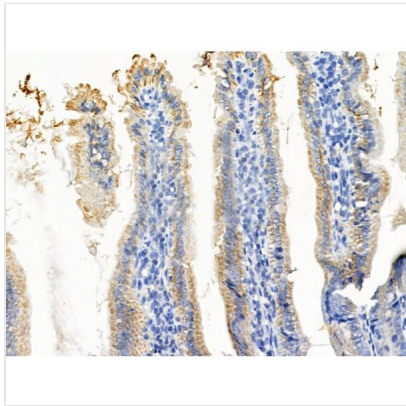
IHC (Immunohistochemistry-Paraffin)
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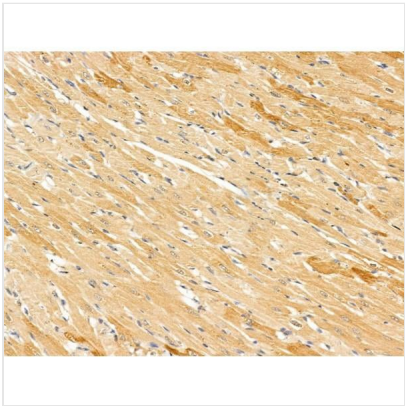
IHC (Immunohistochemistry-Paraffin)
AAA31239 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)
AAA31239 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)
AAA31239 at 1/100 staining Mouse colorectal tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)
AAA31239 at 1/100 staining Rat heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-WIPI1 antibody	Function: Component of the autophagy machinery that controls the major intracellular degradation process by which cytoplasmic materials are packaged into autophagosomes and delivered to lysosomes for degradation (PubMed:28561066). Plays an important role in starvation- and calcium-mediated autophagy, as well as in mitophagy (PubMed:28561066). Functions downstream of the ULK1 and PI3-kinases that produce phosphatidylinositol 3-phosphate (PtdIns3P) on membranes of the endoplasmic reticulum once activated (PubMed:28561066). Binds phosphatidylinositol 3-phosphate (PtdIns3P), and maybe other phosphoinositides including PtdIns3,5P2 and PtdIns5P, and is recruited to phagophore assembly sites at the endoplasmic reticulum membranes (PubMed:28561066). There, it assists WIPI2 in the recruitment of ATG12-ATG5-ATG16L1, a complex that directly controls the elongation of the nascent autophagosomal membrane (PubMed:28561066). Involved in xenophagy of Staphylococcus aureus. Invading S.aureus cells become entrapped in autophagosome-like WIPI1 positive vesicles targeted for lysosomal degradation. Plays also a distinct role in controlling the transcription of melanogenic enzymes and melanosome maturation, a process that is distinct from starvation-induced autophagy. May also regulate the trafficking of proteins involved in the mannose-6-phosphate receptor (MPR) recycling pathway. Subcellular Location: Golgi apparatus>trans-Golgi network. Endosome. Cytoplasmic vesicle>Clathrin-coated vesicle. Preautophagosomal structure membrane>Peripheral membrane protein. Cytoplasm>Cytoskeleton. Note: 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. Subunit Structure: Interacts with androgen receptor (AR) and the estrogen receptors ESR1 and ESR2 (PubMed:15602573). Interacts with WIPI2 (PubMed:28561066). Interacts with WDR45 (PubMed:28561066). Interacts with ATG16L1 (PubMed:28561066). May interact with NUDC (PubMed:28561066). Similarity: The N-terminus might form a beta-propeller domain involved in specific binding to phosphatidylinositol 3,5-bisphosphate (PIP2), leading to the association of the protein to the membrane. Association to the membrane can also occur through binding to phosphatidylinositol 3-monophosphate (PI3P).Belongs to the WD repeat SVP1 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	157388939
NCBI GeneID	55062
NCBI Accession #	NP_060453
NCBI GenBank Nucleotide #	NP_060453.3
UniProt Accession #	Q5MNZ9
Molecular Weight	Observed Molecular Weight: (Observed)48kD. Predicted Molecular Weight: (Calculated)49kDa.
NCBI Official Full Name	WD repeat domain phosphoinositide-interacting protein 1 isoform a
NCBI Official Synonym Full Names	WD repeat domain, phosphoinositide interacting 1
NCBI Official Symbol	WIPI1
NCBI Official Synonym Symbols	ATG18; ATG18A; WIPI49
NCBI Protein Information	WD repeat domain phosphoinositide-interacting protein 1
UniProt Protein Name	WD repeat domain phosphoinositide-interacting protein 1

UniProt Gene Name	WIPI1
UniProt Synonym Gene Names	WIPI49; WIPI-1; WIPI 49 kDa
UniProt Entry Name	WIPI1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/wipi1-antibody-elisa/31239>