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WDR45L Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP13252a

Specification

WDR45L Antibody (N-term) Blocking peptide - Product Information

Primary Accession Q5MNZ6

WDR45L Antibody (N-term) Blocking peptide - Additional Information

Gene ID 56270

Other Names
WD repeat domain phosphoinositide-interacting protein 3, WIPI-3, WD repeat-containing protein 45-like, WDR45-like protein, WD repeat-containing protein 45B, WIPI49-like protein, WDR45B, WDR45L, WIPI3

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13252a was selected from the N-term region of WDR45L. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

WDR45L Antibody (N-term) Blocking peptide - Protein Information

Name WDR45B

Synonyms WDR45L, WIPI3

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). Binds phosphatidylinositol 3-phosphate (PtdIns3P), and other phosphoinositides including PtdIns(3,5)P2, forming on membranes of the endoplasmic reticulum upon activation of the upstream ULK1 and PI3 kinases and is recruited at phagophore assembly sites where it regulates the elongation of nascent phagophores downstream of WIPI2 (PubMed:28561066, PubMed:30797857). In the

cellular response to starvation, may also function together with the TSC1-TSC2 complex and RB1CC1 in the inhibition of the mTORC1 signaling pathway (PubMed:28503735).

Cellular Location
Preautophagosomal structure. Lysosome

Tissue Location
Ubiquitously expressed. Highly expressed in heart, skeletal muscle and pancreas. Up-regulated in a variety of tumor tissues including ovarian and uterine cancers

WDR45L Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

WDR45L Antibody (N-term) Blocking peptide - Images

WDR45L Antibody (N-term) Blocking peptide - Background

This gene encodes a member of the WIPI or SVP1 family ofWD40 repeat-containing proteins. The protein contains seven WD40repeats that are thought to fold into a beta-propeller structurethat mediates protein-protein interactions, and a conserved motiffor interaction with phospholipids. The human genome containsseveral pseudogenes of this gene.

WDR45L Antibody (N-term) Blocking peptide - References

Proikas-Cezanne, T., et al. Oncogene 23(58):9314-9325(2004)Jeffries, T.R., et al. Mol. Biol. Cell 15(6):2652-2663(2004)Venter, J.C., et al. Science 291(5507):1304-1351(2001)