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SAV1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP17544a

Specification

SAV1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q9H4B6

SAV1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 60485

Other Names
Protein salvador homolog 1, 45 kDa WW domain protein, hWW45, SAV1, WW45

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.

SAV1 Antibody (N-term) Blocking Peptide - Protein Information

Name SAV1

Synonyms WW45

Function
Regulator of STK3/MST2 and STK4/MST1 in the Hippo signaling pathway which plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. The core of this pathway is composed of a kinase cascade wherein STK3/MST2 and STK4/MST1, in complex with its regulatory protein SAV1, phosphorylates and activates LATS1/2 in complex with its regulatory protein MOB1, which in turn phosphorylates and inactivates YAP1 oncoprotein and WWTR1/TAZ. Phosphorylation of YAP1 by LATS1/2 inhibits its translocation into the nucleus to regulate cellular genes important for cell proliferation, cell death, and cell migration. SAV1 is required for STK3/MST2 and STK4/MST1 activation and promotes cell-cycle exit and terminal differentiation in developing epithelial tissues. Plays a role in centrosome disjunction by regulating the localization of NEK2 to centrosomes, and its ability to phosphorylate CROCC and CEP250. In conjunction with STK3/MST2, activates the transcriptional activity of ESR1 through the modulation of its phosphorylation.

Cellular Location
Nucleus. Cytoplasm

Tissue Location
Ubiquitously expressed in adult tissues with highest expression in the pancreas, aorta and interventricular septum and lowest expression in skeletal muscle. Expression was higher in fetal than in the adult heart. Expressed in various cell lines

SAV1 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

SAV1 Antibody (N-term) Blocking Peptide - Images

SAV1 Antibody (N-term) Blocking Peptide - Background

WW domain-containing proteins are found in all eukaryotesand play an important role in the regulation of a wide variety ofcellular functions such as protein degradation, transcription, andRNA splicing. This gene encodes a protein which contains 2 WWdomains and a coiled-coil region. It is ubiquitously expressed inadult tissues. The encoded protein is 94% identical to the mouseprotein at the amino acid level.

SAV1 Antibody (N-term) Blocking Peptide - References

Li, Z.M., et al. Zhonghua Zhong Liu Za Zhi 31(7):481-484(2009)Luo, X., et al. Int. J. Mol. Med. 23(3):357-362(2009)Lamesch, P., et al. Genomics 89(3):307-315(2007)Callus, B.A., et al. FEBS J. 273(18):4264-4276(2006)Chan, E.H., et al. Oncogene 24(12):2076-2086(2005)