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WAC Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP9537c

Specification

WAC Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q9BTA9

WAC Antibody (Center) Blocking Peptide - Additional Information

Gene ID 51322

Other Names
WW domain-containing adapter protein with coiled-coil, WAC, KIAA1844

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.

WAC Antibody (Center) Blocking Peptide - Protein Information

Name WAC

Synonyms KIAA1844

Function
Acts as a linker between gene transcription and histone H2B monoubiquitination at 'Lys-120' (H2BK120ub1) (PubMed:21329877). Interacts with the RNA polymerase II transcriptional machinery via its WW domain and with RNF20-RNF40 via its coiled coil region, thereby linking and regulating H2BK120ub1 and gene transcription (PubMed:21329877). Regulates the cell-cycle checkpoint activation in response to DNA damage (PubMed:21329877). Positive regulator of amino acid starvation-induced autophagy (PubMed:22354037). Also acts as a negative regulator of basal autophagy (PubMed:26812014). Positively regulates MTOR activity by promoting, in an energy-dependent manner, the assembly of the TTT complex composed of TELO2, TTI1 and TTI2 and the RUVBL complex composed of RUVBL1 and RUVBL2 into the TTT-RUVBL complex. This leads to the dimerization of the mTORC1 complex and its subsequent activation (PubMed:<a href="http://www.uniprot.org/citations/26812014"

target="_blank">26812014). May negatively regulate the ubiquitin proteasome pathway (PubMed:21329877).

Cellular Location
Nucleus speckle {ECO:0000250|UniProtKB:Q924H7}. Nucleus. Note=In distinct nuclear speckles. Colocalizes with pre-mRNA processing complexes {ECO:0000250|UniProtKB:Q924H7}

WAC Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

WAC Antibody (Center) Blocking Peptide - Images

WAC Antibody (Center) Blocking Peptide - Background

WAC contains a WW domain, which is a protein module found in a wide range of signaling proteins. This domain mediates protein-protein interactions and binds proteins containing short linear peptide motifs that are proline-rich or contain at least one proline. This gene product shares 94% sequence identity with the WAC protein in mouse, however, its exact function is not known.

WAC Antibody (Center) Blocking Peptide - References

Olsen, J.V., et al. Cell 127(3):635-648(2006)Olsen, J.V., et al. Cell 127(3):635-648(2006)Beausoleil, S.A., et al. Nat. Biotechnol. 24(10):1285-1292(2006)Lim, J., et al. Cell 125(4):801-814(2006)Deloukas, P., et al. Nature 429(6990):375-381(2004)