

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

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**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:<a href="http://www.uniprot.org/citations/21329877" target="\_blank">21329877</a>). 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:<a href="http://www.uniprot.org/citations/21329877" target="\_blank">21329877</a>). Regulates the cell-cycle checkpoint activation in response to DNA damage (PubMed:<a href="http://www.uniprot.org/citations/21329877" target="\_blank">21329877</a>). Positive regulator of amino acid starvation-induced autophagy (PubMed:<a href="http://www.uniprot.org/citations/22354037" target="\_blank">22354037</a>). Also acts as a negative regulator of basal autophagy (PubMed:<a href="http://www.uniprot.org/citations/26812014" target="\_blank">26812014</a>). Positively regulates MTOR activity by promoting, in an energy-dependent manner, the assembly of the TTT complex composed of TEO2, 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</a>).

target="\_blank">26812014</a>). May negatively regulate the ubiquitin proteasome pathway (PubMed:<a href="http://www.uniprot.org/citations/21329877" target="\_blank">21329877</a>).

**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)