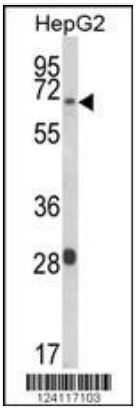
WAC Antibody – Rabbit Polyclonal

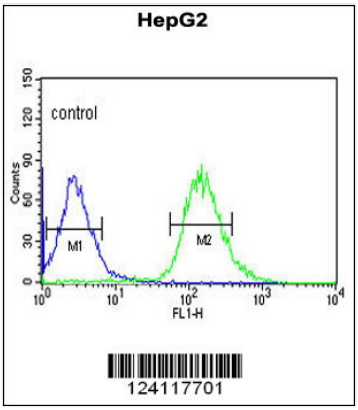
PRODUCT OVERVIEW

Product Name	WAC, Polyclonal Antibody
Full Product Name	WAC, ID (WAC, KIAA1844, WW domain-containing adapter protein with coiled-coil) (FITC)
Product Gene Name	anti-WAC antibody
Product Synonym Names	WAC; KIAA1844; WW domain-containing adapter protein with coiled-coil
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	Predicted: 71 kDa Observed: 75 kDa
OMIM	615049
3D Structure	ModBase 3D Structure for Q9BTA9
Immunogen	WAC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 291~321 amino acids from the Central region of human WAC.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-WAC antibody	Antibodies; Adapter Proteins
Applications Tested/Suitable for anti-WAC antibody	Flow Cytometry (FC/FACS), FLISA, Western Blot (WB)
Application Notes for anti-WAC antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-WAC antibody	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.

Product References and Citations for anti-WAC antibody	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).
Other Notes	Small volumes of anti-WAC antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for WAC purchase	MBS6362964 is an antibody targeting WAC. Also known as WAC, ID (WAC, KIAA1844, WW domain-containing adapter protein with coiled-coil) (FITC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-WAC antibody
Western blot analysis of WAC Antibody (Center) in HepG2 cell line lysates (35ug/lane). WAC(arrow) was detected using the purified Pab.



Flow Cytometry (FC/FACS) of anti-WAC antibody
WAC Antibody (Center) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for WAC. It may not necessarily be applicable to this product.

NCBI GI #	18379328
NCBI GeneID	51322
NCBI Accession #	NP_057712
UniProt Primary Accession #	Q9BTA9
UniProt Secondary Accession #	Q53EN9; Q5JU75; Q5JU77; Q5VXK0; Q5VXK2; Q8TCK1; A8K2A9; C9JBT9; D3DRW5; D3DRW6; D3DRW7
UniProt Related Accession #	Q9BTA9
GenBank Nucleotide #	NM_016628.4
NCBI Official Full Name	WW domain-containing adapter protein with coiled-coil isoform 1
NCBI Official Synonym Full Names	WW domain containing adaptor with coiled-coil
NCBI Official Symbol	WAC
NCBI Official Synonym Symbols	Wwp4; BM-016; PRO1741
UniProt Protein Name	WW domain-containing adapter protein with coiled-coil
Protein Family	Fibritin
UniProt Gene Name	WAC
UniProt Synonym Gene Names	KIAA1844
UniProt Entry Name	WAC_HUMAN
NCBI Protein Information	WW domain-containing adapter protein with coiled-coil

NCBI Summary for WAC	The protein encoded by this gene 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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2008]
UniProt Comments for WAC	WAC: Acts as a linker between gene transcription and histone H2B monoubiquitination at 'Lys-120' (H2BK120ub1). 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. Regulates the cell-cycle checkpoint activation in response to DNA damage. Positive regulator of amino acid starvation-induced autophagy. May negatively regulate the ubiquitin proteasome pathway. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 10p12.1|10p12.1-p11.2 Cellular Component: nucleoplasm; spliceosome; nuclear speck; nucleus Molecular Function: protein binding; chromatin binding Biological Process: histone monoubiquitination; transcription, DNA-dependent; positive regulation of transcription, DNA-dependent; negative regulation of proteasomal ubiquitin-dependent protein catabolic process; response to DNA damage stimulus; positive regulation of macroautophagy
Research Articles on WAC	**1.** The identification of SCOC and WAC as novel regulatory proteins with diverse functions in autophagy contributes towards a fuller understanding of autophagosome formation.
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