

Rabbit WAC Polyclonal Antibody | anti-WAC antibody

Anti-WAC Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125735	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

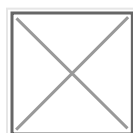
PRODUCT SYNONYMS

WAC; Polyclonal Antibody; Anti-WAC Antibody; WW domain-containing adapter protein with coiled-coil; KIAA1844; WW domain containing adaptor with coiled-coil; anti-WAC antibody

PRODUCT SPECIFICATIONS

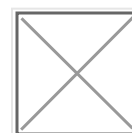
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for WAC detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg NaN ₃ .
Applicable Applications for anti-WAC antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived human WAC recombinant protein (Position: Q459-V647).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HepG2 cells using anti-WAC antibody (AAA125735). Overlay histogram showing HepG2 cells stained with AAA125735 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-WAC Antibody (AAA125735, 1 µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10 µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of WAC using anti-WAC antibody (AAA125735). WAC was detected in immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 4 µg/mL rabbit anti-WAC Antibody (AAA125735) overnight at 4 degree C. DyLight[®]594 Conjugated Goat Anti-Rabbit IgG (BA1142) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of WAC using anti-WAC antibody (AAA125735). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human A431 whole cell lysates Lane 2: human THP-1 whole cell lysates Lane 3: human Raji whole cell lysates Lane 4: human K562 whole cell lysates Lane 5: human U20S whole cell lysates Lane 6: human SK-OV-3 whole cell lysates Lane 7: rat brain tissue lysates Lane 8: rat PC-12 whole cell lysates Lane 9: mouse thymus tissue lysates Lane 10: mouse SP2/0 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-WAC antigen affinity purified polyclonal antibody (Catalog # AAA125735) at 0.25 µg/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for WAC at approximately 85KD. The expected band size for WAC is at 85KD.

ADDITIONAL INFORMATION

Related Product Information for anti-WAC antibody	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.
References	1. DeSanto, C., D'Aco, K., Araujo, G. C., Shannon, N., DDD Study, Vernon, H., Rahrig, A., Monaghan, K. G., Niu, Z., Vitazka, P., Dodd, J., Tang, S., and 9 others. WAC loss-of-function mutations cause a recognisable syndrome characterised by dysmorphic features, developmental delay and hypotonia and recapitulate 10p11.23 microdeletion syndrome. J. Med. Genet. 52: 754-761, 2015. 2. Nagase, T., Nakayama, M., Nakajima, D., Kikuno, R., Ohara, O. Prediction of the coding sequences of unidentified human genes. XX. The complete sequences of 100 new cDNA clones from brain which code for large proteins in vitro. DNA Res. 8: 85-95, 2001. 3. Xu, G. M., Arnaout, M. A. WAC, a novel WW domain-containing adapter with a coiled-coil region, is colocalized with splicing factor SC35. Genomics 79: 87-94, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	18379328
NCBI GeneID	51322
NCBI Accession #	NP_057712
NCBI GenBank Nucleotide #	NM_016628.4
UniProt Accession #	Q9BTA9; Q53EN9; Q5JU75; Q5JU77; Q5VXK0; Q5VXK2; Q8TCK1; A8K2A9; C9JBT9; D3DRW5; D3DRW6; D3DRW7
Molecular Weight	Predicted: 71 kDa Observed: 75 kDa
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
NCBI Protein Information	WW domain-containing adapter protein with coiled-coil

UniProt Protein Name	WW domain-containing adapter protein with coiled-coil
UniProt Gene Name	WAC
UniProt Synonym Gene Names	KIAA1844
UniProt Entry Name	WAC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/wac-antibody-direct-elisa-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/125735>