

Rabbit KIBRA/WWC1 Polyclonal Antibody | anti-WWC1 antibody

Anti-KIBRA/WWC1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125673	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

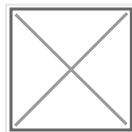
PRODUCT SYNONYMS

KIBRA/WWC1; Polyclonal Antibody; Anti-KIBRA/WWC1 Antibody; WWC1; KIAA0869; Protein KIBRA; HBeAg-binding protein 3; Kidney and brain protein; KIBRA; WW domain-containing protein 1; WW and C2 domain containing 1; anti-WWC1 antibody

PRODUCT SPECIFICATIONS

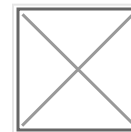
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for KIBRA/WWC1 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-WWC1 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived human KIBRA/WWC1 recombinant protein (Position: D990-Q1080).
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 A431 cells using anti-KIBRA/WWC1 antibody (AAA125673). Overlay histogram showing A431 cells stained with AAA125673 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-KIBRA/WWC1 Antibody (AAA125673, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of KIBRA/WWC1 using anti-KIBRA/WWC1 antibody (AAA125673). KIBRA/WWC1 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 5µg/mL rabbit anti-KIBRA/WWC1 Antibody (AAA125673) overnight at 4 degree C. DyLight594 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 KIBRA/WWC1 using anti-KIBRA/WWC1 antibody (AAA125673). 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 MCF-7 whole cell lysates; Lane 2: human MDA-MB-453 whole cell lysates; Lane 3: human HEK293 whole cell lysates; Lane 4: rat brain tissue lysates; Lane 5: mouse brain tissue 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-KIBRA/WWC1 antigen affinity purified polyclonal antibody (Catalog # AAA125673) at 0.5 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 1:5000 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 KIBRA/WWC1 at approximately 130KD. The expected band size for KIBRA/WWC1 is at 130KD.

ADDITIONAL INFORMATION

Related Product Information for anti- WWC1 antibody	Protein KIBRA also known as kidney and brain expressed protein (KIBRA) or WW domain-containing protein 1 (WWC1) is a protein that in humans is encoded by the WWC1 gene. The protein encoded by this gene is a cytoplasmic phosphoprotein that interacts with PRKC-zeta and dynein light chain-1. Alleles of this gene have been found that enhance memory in some individuals. Three transcript variants encoding different isoforms have been found for this gene.
References	1. Buther, K., Plaas, C., Barnekow, A., Kremerskothen, J. KIBRA is a novel substrate for protein kinase C-zeta. <i>Biochem. Biophys. Res. Commun.</i> 317: 703-707, 2004. 2. Duning, K., Wennmann, D. O., Bokemeyer, A., Reissner, C., Wershching, H., Thomas, C., Buschert, J., Guske, K., Franzke, V., Floel, A., Lohmann, H., Knecht, S., and 13 others. Common exonic missense variants in the C2 domain of the human KIBRA protein modify lipid binding and cognitive performance. <i>Transl. Psychiat.</i> 3: e272, 2013. Note: Electronic Article. 3. Kremerskothen, J., Plaas, C., Buther, K., Finger, I., Veltel, S., Matanis, T., Liedtke, T., Barnekow, A. Characterization of KIBRA, a novel WW domain-containing protein. <i>Biochem. Biophys. Res. Commun.</i> 300: 862-867, 2003.

NCBI AND UNIPROT INFORMATION

NCBI GI #	242247251
NCBI GeneID	23286
NCBI Accession #	NP_001155133.1
NCBI GenBank Nucleotide #	NM_001161661.1
UniProt Accession #	Q8IX03 ; O94946 ; Q6MZX4 ; Q6Y2F8 ; Q7Z4G8 ; Q8WVM4 ; Q9BT29 ; B4DK05
Molecular Weight	125,905 Da
NCBI Official Full Name	protein KIBRA isoform 1
NCBI Official Synonym Full Names	WW and C2 domain containing 1
NCBI Official Symbol	WWC1
NCBI Official Synonym Symbols	KIBRA; HBEBP3; HBEBP36; MEMRYQTL; PPP1R168
NCBI Protein Information	protein KIBRA; HBeAg-binding protein 3; WW, C2 and coiled-coil domain containing 1; kidney and brain protein; protein WWC1; protein phosphatase 1, regulatory subunit 168
UniProt Protein Name	Protein KIBRA
UniProt Gene Name	WWC1

UniProt Synonym Gene Names	KIAA0869; KIBRA
UniProt Entry Name	KIBRA_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/kibra-wwc1-antibody-direct-elisa-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/125673>