

Rabbit DIAPH1 Polyclonal Antibody | anti-DIAPH1 antibody

Anti-DIAPH1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126212	Rabbit	Human, Monkey	Western Blot, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

DIAPH1; Polyclonal Antibody; Anti-DIAPH1 Antibody Picoband; anti-DIAPH1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Monkey
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-DIAPH1 antibody	WB (Western Blot), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human DIAPH1 recombinant protein (Position: D1039-Q1153).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of K562 cells using anti-DIAPH1 antibody (AAA126212). Overlay histogram showing K562 cells stained with AAA126212 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-DIAPH1 Antibody (AAA126212, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of DIAPH1 using anti-DIAPH1 antibody (AAA126212). DIAPH1 was detected in an immunocytochemical section of Caco-2 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-DIAPH1 Antibody (AAA126212) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG 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 DIAPH1 using anti-DIAPH1 antibody (AAA126212). 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 30 ug of sample under reducing conditions. Lane 1: human K562 whole cell lysates, Lane 2: human Raji whole cell lysates, Lane 3: human Hela whole cell lysates, Lane 4: monkey COS-7 whole cell lysates, Lane 5: human Caco-2 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-DIAPH1 antigen affinity purified polyclonal antibody (#AAA126212) at 0.5 ug/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 DIAPH1 at approximately 150 kDa. The expected band size for DIAPH1 is at 150 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-DIAPH1 antibody	Protein diaphanous homolog 1 is a protein that in humans is encoded by the DIAPH1 gene. This gene is a homolog of the Drosophila diaphanous gene, and has been linked to autosomal dominant, fully penetrant, nonsyndromic sensorineural progressive low-frequency hearing loss. Actin polymerization involves proteins known to interact with diaphanous protein in Drosophila and mouse. It has therefore been speculated that this gene may have a role in the regulation of actin polymerization in hair cells of the inner ear. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.
Product Categories/Family for anti-DIAPH1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	109658532
NCBI GeneID	1729
UniProt Accession #	O60610; Q17RN4; Q59FH8; Q9UC76; A6NF18; B7ZKW2; E9PEZ2
Molecular Weight	138,907 Da
NCBI Official Full Name	DIAPH1 protein
NCBI Official Synonym Full Names	diaphanous related formin 1
NCBI Official Symbol	DIAPH1
NCBI Official Synonym Symbols	DIA1; DRF1; DFNA1; LFHL1; SCBMS; hDIA1
NCBI Protein Information	protein diaphanous homolog 1
UniProt Protein Name	Protein diaphanous homolog 1
UniProt Gene Name	DIAPH1
UniProt Synonym Gene Names	DIAP1; DRF1

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.