

Rabbit anti-Human POGZ Polyclonal Antibody | anti-POGZ antibody

Anti-POGZ Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127348	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

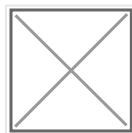
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

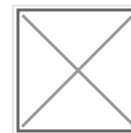
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-POGZ antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human POGZ recombinant protein (Position: D23-R1110). Human POGZ shares 93.7% amino acid (aa) sequence identity with mouse POGZ.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	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 4. Flow Cytometry analysis of MCF-7 cells using anti-POGZ antibody (AAA127348). Overlay histogram showing MCF-7 cells stained with AAA127348 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-POGZ Antibody (AAA127348, 1ug/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 (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



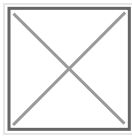
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HepG2 cells using anti-POGZ antibody (AAA127348). Overlay histogram showing HepG2 cells stained with AAA127348 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-POGZ Antibody (AAA127348, 1ug/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 (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of POGZ using anti-POGZ antibody (AAA127348) and anti-Beta Tubulin antibody (M01857-3).POGZ was detected in immunocytochemical section of U2OS cell. 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 5ug/mL rabbit anti-POGZ Antibody (AAA127348) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG (B) and DyLight550 Conjugated Goat Anti-Mouse IgG (BA1133)(D) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI(C). Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of POGZ using anti-POGZ antibody (AAA127348).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 SH-SY5Y whole cell lysates,Lane 2: human MCF-7 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-POGZ antigen affinity purified polyclonal antibody (#AAA127348) at 0.5ug/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 POGZ at approximately 220 kDa. The expected band size for POGZ is at 155 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-POGZ antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-POGZ antibody	Primary Antibodies
References	1. Assia Batzir, N., Posey, J. E., Song, X., Coban Akdemir, Z., Rosenfeld, J. A., Brown, C. W., Chen, E., Holtrop, S. G., Mizerik, E., Nieto Moreno, M., Payne, K., Raas-Rothschild, An., Scott, R., Vernon, H. J., Zadeh, N., Baylor-Hopkins Center for Mendelian Genomics, Lupski, J. R., Reid Sutton, V. Phenotypic expansion of POGZ-related intellectual disability syndrome (White-Sutton syndrome). Am. J. Med. Genet. 182A: 38-52, 2020.2. Deciphering Developmental Disorders Study. Large-scale discovery of novel genetic causes of developmental disorders. Nature 519: 223-228, 2015.3. Gunther, M., Laithier, M., Brison, O. A set of proteins interacting with transcription factor Sp1 identified in a two-hybrid screening. Molec. Cell. Biochem. 210: 131-142, 2000.

NCBI AND UNIPROT INFORMATION

NCBI GI #	302699213
NCBI GeneID	23126
NCBI Accession #	NP_001181866.1
NCBI GenBank Nucleotide #	NM_001194937.1
UniProt Accession #	Q7Z3K3; O75049; Q3LIC4; Q5SZS1; Q5SZS2; Q5SZS3; Q5SZS4; Q8TDZ7; B4DTP8; B4DYL9; B7ZBY5; E9PM80
Molecular Weight	149,278 Da
NCBI Official Full Name	pogo transposable element with ZNF domain isoform 4
NCBI Official Synonym Full Names	pogo transposable element derived with ZNF domain
NCBI Official Symbol	POGZ
NCBI Official Synonym Symbols	MRD37; WHSUS; ZNF635; ZNF280E; ZNF635m
NCBI Protein Information	pogo transposable element with ZNF domain
UniProt Protein Name	Pogo transposable element with ZNF domain
UniProt Gene Name	POGZ
UniProt Synonym Gene Names	KIAA0461; SUHW5; ZNF280E; ZNF635

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/pogz-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127348>