

Rabbit PUM1 Polyclonal Antibody | anti-PUM1 antibody

Anti-PUM1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127102	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

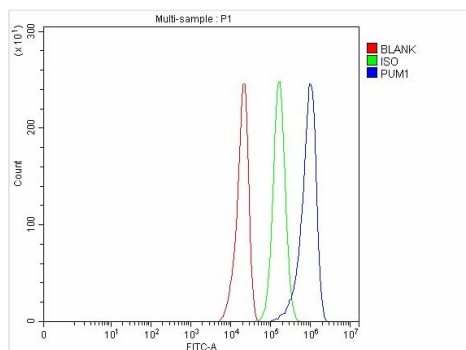
PRODUCT SYNONYMS

PUM1; Polyclonal Antibody; Anti-PUM1 Antibody Picoband; anti-PUM1 antibody

PRODUCT SPECIFICATIONS

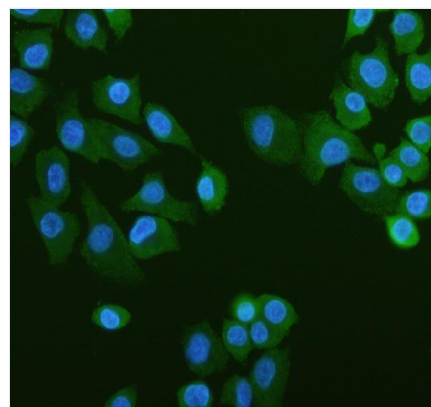
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-PUM1 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human PUM1 recombinant protein (Position: M1-D361).
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



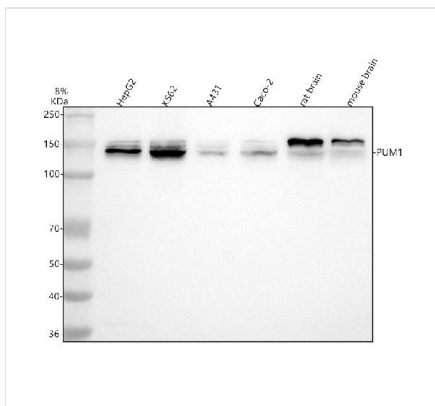
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U251 cells using anti-PUM1 antibody (AAA127102). Overlay histogram showing U251 cells stained with AAA127102 (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-PUM1 Antibody (AAA127102, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



IF (Immunofluorescence)

Figure 2. IF analysis of PUM1 using anti-PUM1 antibody (AAA127102). PUM1 was detected in an immunocytochemical section of A549 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 5ug/mL rabbit anti-PUM1 Antibody (AAA127102) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:500 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 PUM1 using anti-PUM1 antibody (AAA127102). 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 HepG2 whole cell lysates, Lane 2: human K562 whole cell lysates, Lane 3: human A431 whole cell lysates, Lane 4: human Caco-2 whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: mouse brain tissue 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-PUM1 antigen affinity purified polyclonal antibody (#AAA127102) 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 PUM1 at approximately 140 kDa. The expected band size for PUM1 is at 126 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PUM1 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-PUM1 antibody	Primary Antibodies
References	1. Bonnemason-Carrere, P., Morice-Picard, F., Pennamen, P., Arveiler, B., Fergelot, P., Goizet, C., Hellegouarch, M., Lacombe, D., Plaisant, C., Raclet, V., Rooryck, C., Lasseaux, E., Trimouille, A. PADDAS syndrome associated with hair dysplasia caused by a de novo missense variant of PUM1. <i>Am. J. Med. Genet.</i> 179A: 1030-1033, 2019. 2. Gennarino, V. A., Palmer, E. E., McDonell, L. M., Wang, L., Adamski, C. J., Koire, A., See, L., Chen, C.-A., Schaaf, C. P., Rosenfeld, J. A., Panzer, J. A., Moog, U. A mild PUM1 mutation is associated with adult-onset ataxia, whereas haploinsufficiency causes developmental delay and seizures. <i>Cell</i> 172: 924-936, 2018. 3. Gennarino, V. A., Singh, R. K., White, J. J., De Maio, A., Han, K., Kim, J.-Y., Jafar-Nejad, P., di Ronza, A., Kang, H., Sayegh, L. S., Cooper, T. A., Orr, H. T., Sillitoe, R. V., Zoghbi, H. Y. Pumilio1 haploinsufficiency leads to SCA1-like neurodegeneration by increasing wild-type ataxin1 levels. <i>Cell</i> 160: 1087-1098, 2015.

NCBI AND UNIPROT INFORMATION

NCBI GI #	66932909
NCBI GeneID	9698
NCBI Accession #	NP_001018494.1
NCBI GenBank Nucleotide #	NM_001020658.1
UniProt Accession #	Q14671 ; Q53HH5 ; Q5VXY7 ; Q9HAN1 ; A8K6W4 ; B4DG92 ; D3DPN3 ; E9PCJ0
Molecular Weight	124,420 Da
NCBI Official Full Name	pumilio homolog 1 isoform 1
NCBI Official Synonym Full Names	pumilio RNA binding family member 1

NCBI Official Symbol	PUM1
NCBI Official Synonym Symbols	PUMH; HSPUM; PUMH1; PUML1; SCA47
NCBI Protein Information	pumilio homolog 1
UniProt Protein Name	Pumilio homolog 1
UniProt Gene Name	PUM1
UniProt Synonym Gene Names	HsPUM; Pumilio-1

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/pum1-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127102>