

Rabbit PPM1J Polyclonal Antibody | anti-PPM1J antibody

Anti-PPM1J Antibody Picoband

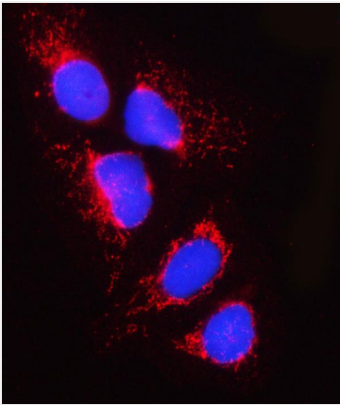
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127872	Rabbit	Human, Mouse, Rat	ELISA, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

PPM1J; Polyclonal Antibody; Anti-PPM1J Antibody Picoband; Transmembrane protein 240; kelch repeat and BTB domain containing 2; Kelch repeat and BTB domain-containing protein 2; BTB and kelch domain-containing protein 1; KBTBD2; BKLHD1; KIAA1489; anti-PPM1J antibody

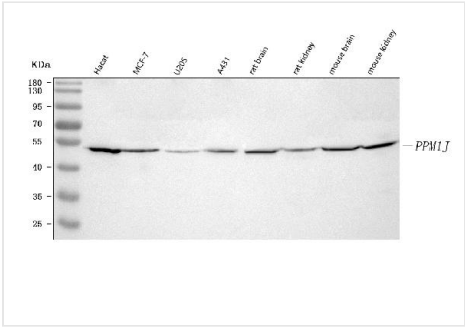
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Detected in liver, skeletal muscle, kidney, pancreas, spleen, thyroid, testis, ovary, small intestine and colon.
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-PPM1J antibody	ELISA, IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human PPM1J recombinant protein (Position: K59-D475).
Subcellular Localization	Cul3-RING ubiquitin ligase complex
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Required for DNA double-strand breaks (DSBs) formation in unsynapsed regions during meiotic recombination. Probably acts by forming a complex with MEI4 and REC114, which activates DSBs formation in unsynapsed regions, an essential step to ensure completion of synapsis. Not required for HORMAD1 functions in pairing-independent synaptonemal complex formation, ATR recruitment to unsynapsed axes, meiotic silencing of unsynapsed chromatin (MSUC) or meiotic surveillance.
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.



IF (Immunofluorescence)

Figure 2. IF analysis of PPM1J using anti-PPM1J antibody (AAA127872). PPM1J was detected in an immunocytochemical section of U2OS 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-PPM1J Antibody (AAA127872) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) 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 PPM1J using anti-PPM1J antibody (AAA127872). 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 Haca whole cell lysates, Lane 2: human MCF-7 whole cell lysates, Lane 3: human U2OS whole cell lysates, Lane 4: human A431 whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: rat kidney tissue lysates, Lane 7: mouse brain tissue lysates, Lane 8: mouse kidney 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-PPM1J antigen affinity purified polyclonal antibody (#AAA127872) 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 PPM1J at approximately 55 kDa. The expected band size for PPM1J is at 55 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PPM1J 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-PPM1J antibody	Primary Antibodies; Cell Biology
References	1. Gross, M. B. Personal Communication. Baltimore, Md. 9/30/2014.2. Kashiwaba, M., Katsura, K., Ohnishi, M., Sasaki, M., Tanaka, H., Nishimune, Y., Kobayashi, T., Tamura, S. A novel protein phosphatase 2C family member (PP2C-zeta) is able to associate with ubiquitin conjugating enzyme 9. FEBS Lett. 538: 197-202, 2003.

NCBI AND UNIPROT INFORMATION

NCBI GI #	65506328
NCBI GeneID	333926
NCBI Accession #	NP_005158
NCBI GenBank Nucleotide #	NM_005167
UniProt Accession #	Q5JR12; Q6DKJ7; Q96EZ7; Q9UF84; B3KSB7
Molecular Weight	33,464 Da
NCBI Official Full Name	protein phosphatase 1J
NCBI Official Synonym Full Names	protein phosphatase, Mg2+/Mn2+ dependent, 1J
NCBI Official Symbol	PPM1J
NCBI Official Synonym Symbols	PP2CZ; PPP2CZ; PP2Czeta
NCBI Protein Information	protein phosphatase 1J; PP2C-zeta; protein phosphatase 1J (PP2C domain containing); protein phosphatase 2C isoform zeta; protein phosphatase 2C zeta; protein phosphatase 2a, catalytic subunit, zeta isoform

UniProt Protein Name	Protein phosphatase 1J
UniProt Gene Name	PPM1J
UniProt Synonym Gene Names	PPP2CZ; PP2C-zeta
UniProt Entry Name	PPM1J_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://www.aaabiotech.com/polyclonal/ppm1j-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/127872>