

Rabbit PMPCA/INPP5 Polyclonal Antibody | anti-PMPCA antibody

Anti-PMPCA/INPP5 Antibody Picoband

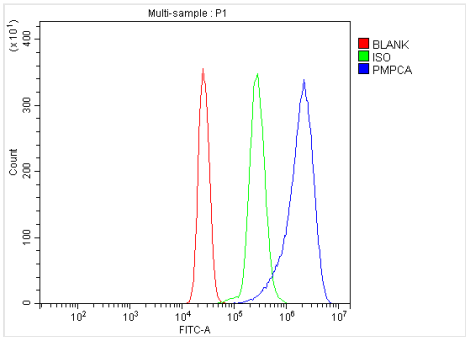
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19611	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

PMPCA/INPP5; Polyclonal Antibody; Anti-PMPCA/INPP5 Antibody Picoband; anti-PMPCA antibody

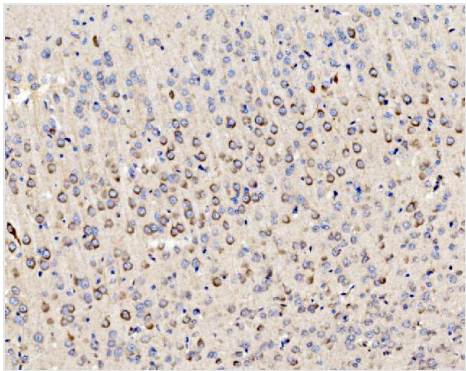
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
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-PMPCA antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), ICC (Immunocytochemistry), WB (Western Blot)
Application Notes	WB: 0.1-0.25 ug/ml, Human, Mouse, Rat IHC-P: 2-5 ug/ml, Human, Mouse, Rat ICC/IF: 5 ug/ml, Human FC/FACS: 1-3 ug/1x10 ⁶ cells, Human Direct ELISA: 0.1-0.5 ug/ml, Human Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC(P) and ICC.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human PMPCA/INPP5 recombinant protein (Position: R99-R525).
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.



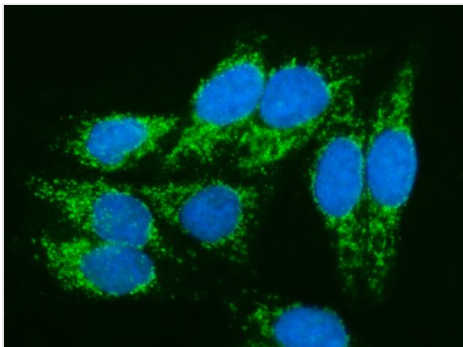
FCM (Flow Cytometry)

Figure 11. Flow Cytometry analysis of U937 cells using anti-PMPCA/INPP5 antibody (AAA19611).Overlay histogram showing U937 cells stained with AAA19611 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PMPCA/INPP5 Antibody (AAA19611, 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.



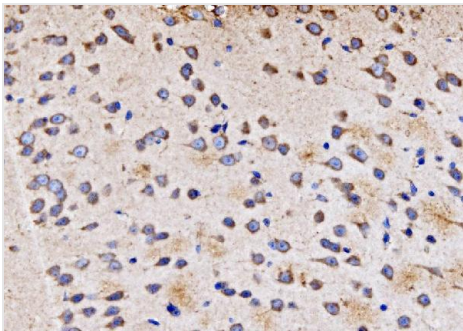
IHC (Immunohistochemistry)

Figure 9. IHC analysis of PMPCA/INPP5 using anti-PMPCA/INPP5 antibody (AAA19611).PMPCA/INPP5 was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-PMPCA/INPP5 Antibody (AAA19611) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



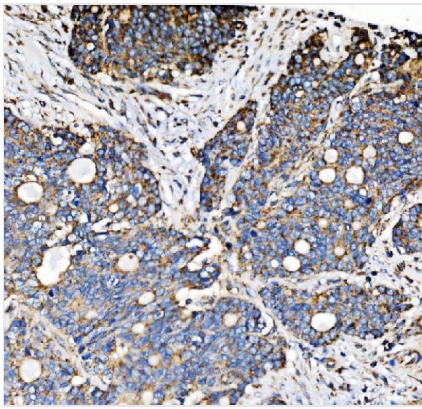
IF (Immunofluorescence)

Figure 10. IF analysis of PMPCA/INPP5 using anti-PMPCA/INPP5 antibody (AAA19611).PMPCA/INPP5 was detected in an immunocytochemical section of HEP3B 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-PMPCA/INPP5 Antibody (AAA19611) 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.



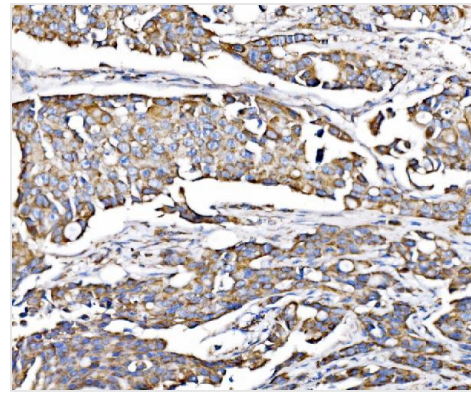
IHC (Immunohistochemistry)

Figure 8. IHC analysis of PMPCA/INPP5 using anti-PMPCA/INPP5 antibody (AAA19611).PMPCA/INPP5 was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-PMPCA/INPP5 Antibody (AAA19611) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 7. IHC analysis of PMPCA/INPP5 using anti-PMPCA/INPP5 antibody (AAA19611).PMPCA/INPP5 was detected in a paraffin-embedded section of human gall bladder adenosquamous carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-PMPCA/INPP5 Antibody (AAA19611) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 6. IHC analysis of PMPCA/INPP5 using anti-PMPCA/INPP5 antibody (AAA19611).PMPCA/INPP5 was detected in a paraffin-embedded section of human breast cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-PMPCA/INPP5 Antibody (AAA19611) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-PMPCA antibody	Mitochondrial-processing peptidase subunit alpha is an enzyme that in humans is encoded by the PMPCA gene. The protein encoded by this gene is found in the mitochondrion, where it represents the alpha subunit of a proteolytic heterodimer. This heterodimer is responsible for cleaving the transit peptide from nuclear-encoded mitochondrial proteins. Defects in this gene are a cause of spinocerebellar ataxia, autosomal recessive 2.
Product Categories/Family for anti-PMPCA antibody	Primary Antibodies , Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	545478640
NCBI GeneID	23203
NCBI Accession #	NP_001269873.1
NCBI GenBank Nucleotide #	NM_001282944.1
UniProt Accession #	Q10713; Q16639; Q5SXM9; Q8N513; B4DKL3; E7ET61
Molecular Weight	58,253 Da
NCBI Official Full Name	mitochondrial-processing peptidase subunit alpha isoform 2
NCBI Official Synonym Full Names	peptidase (mitochondrial processing) alpha
NCBI Official Symbol	PMPCA
NCBI Official Synonym Symbols	P-55; INPP5E; Alpha-MPP
NCBI Protein Information	mitochondrial-processing peptidase subunit alpha; inositol polyphosphate-5-phosphatase, 72 kD; mitochondrial matrix processing protease, alpha subunit
UniProt Protein Name	Mitochondrial-processing peptidase subunit alpha
UniProt Gene Name	PMPCA
UniProt Synonym Gene Names	INPP5E; KIAA0123; MPPA
UniProt Entry Name	MPPA_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/pmpca-inpp5-antibody-flow-cytometry-immunofluorescence-immunohistochemistry-immunocytochemistry-western-blot-elisa/19611>