

Rabbit ITPA Polyclonal Antibody | anti-ITPA antibody

Anti-ITPA Antibody Picoband

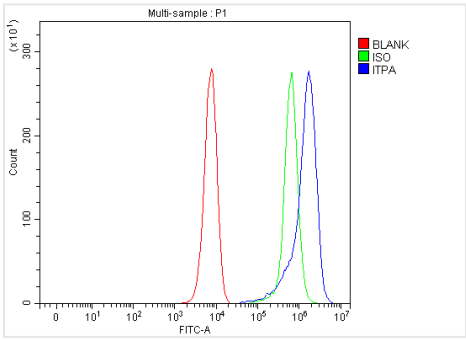
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19773	Rabbit	Human, Mouse, Rat	ELISA, Immunofluorescence, Immunohistochemistry, Western Blot, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

ITPA; Polyclonal Antibody; Anti-ITPA Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-ITPA antibody

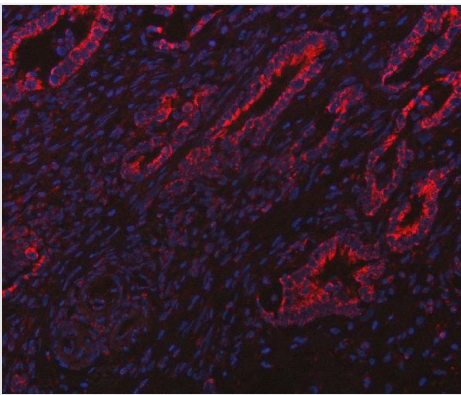
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Expressed in all tissues.
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-ITPA antibody	ELISA, IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), FCM/FACS (Flow Cytometry)
Application Notes	WB: 0.25-0.5ug/ml, Human, Mouse, Rat IHC: 2-5ug/ml, Human, Rat IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human ITPA recombinant protein (Position: M1-A194). Human ITPA shares 89.6% and 92.1% amino acid (aa) sequence identity with mouse and rat ITPA, respectively.
Subcellular Localization	Cytoplasm, Nucleus
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	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
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.



FCM (Flow Cytometry)

Figure 11. Flow Cytometry analysis of K562 cells using anti-ITPA antibody (AAA19773). Overlay histogram showing K562 cells stained with AAA19773 (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-ITPA Antibody (AAA19773, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10⁶ cells) 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 10. IF analysis of ITPA using anti-ITPA antibody (AAA19773). ITPA was detected in a paraffin-embedded section of human intestinal 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 5ug/mL rabbit anti-ITPA Antibody (AAA19773) 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.

Product Categories/Family for anti-ITPA antibody	Primary Antibodies ; Signal Transduction ; Signaling Pathway ; Small G Proteins
References	1. Behmanesh, M., Sakumi, K., Abolhassani, N., Toyokuni, S., Oka, S., Ohnishi, Y. N., Tsuchimoto, D., Nakabeppu, Y. ITPase-deficient mice show growth retardation and die before weaning. <i>Cell Death Differ.</i> 16: 1315-1322, 2009. 2. Cao, H., Hegele, R. A. DNA polymorphisms in ITPA including basis of inosine triphosphatase deficiency. <i>J. Hum. Genet.</i> 47: 620-622, 2002. 3. Fellay, J., Thompson, A. J., Ge, D., Gumbs, C. E., Urban, T. J., Shianna, K. V., Little, L. D., Qiu, P., Bertelsen, A. H., Watson, M., Warner, A., Muir, A. J., Brass, C., Albrecht, J., Sulkowski, M., McHutchison, J. G., Goldstein, D. B. ITPA gene variants protect against anaemia in patients treated for chronic hepatitis C. <i>Nature</i> 464: 405-408, 2010.

NCBI AND UNIPROT INFORMATION

NCBI GI #	30173120
NCBI GeneID	3704
UniProt Accession #	Q9BY32 ; O14878 ; Q5JWH4 ; Q9BYN1 ; Q9BYX0 ; Q9H3H8 ; A2A2N2 ; A4UIM5 ; B2BCH7
Molecular Weight	21,446 Da
NCBI Official Full Name	Inosine triphosphate pyrophosphatase
NCBI Official Synonym Full Names	inosine triphosphatase (nucleoside triphosphate pyrophosphatase)
NCBI Official Symbol	ITPA
NCBI Official Synonym Symbols	My049; C20orf37; dJ794I6.3; HLC14-06-P
NCBI Protein Information	inosine triphosphate pyrophosphatase; ITPase; NTPase; inosine triphosphatase-A; putative oncogene protein HLC14-06-P; nucleoside-triphosphate diphosphatase; non-standard purine NTP pyrophosphatase; non-canonical purine NTP pyrophosphatase; inosine triphos
UniProt Protein Name	Inosine triphosphate pyrophosphatase
UniProt Gene Name	ITPA
UniProt Synonym Gene Names	C20orf37; ITPase; Inosine triphosphatase; NTPase
UniProt Entry Name	ITPA_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/itpa-antibody-immunofluorescence-immunohistochemistry-western-blot-flow-cytometry-elisa/19773>