

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

Anti-ITPKC Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127480	Rabbit	Human	Western Blot, Flow Cytometry, Functional Assay, ELISA

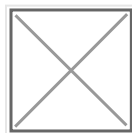
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

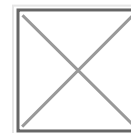
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-ITPKC antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), ELISA
Immunogen	E coli-derived human ITPKC recombinant protein (Position: D292-E607). Human ITPKC shares 88.1% and 88% amino acid (aa) sequence identity with mouse and rat ITPKC, respectively.
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 2. Flow Cytometry analysis of Caco-2 cells using anti-ITPKC antibody (AAA127480). Overlay histogram showing Caco-2 cells stained with AAA127480 (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-ITPKC Antibody (AAA127480, 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.



WB (Western Blot)

Figure 1. Western blot analysis of ITPKC using anti-ITPKC antibody (AAA127480). 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 RT4 whole cell lysates, Lane 2: human Caco-2 whole cell lysates, Lane 3: human A431 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-ITPKC antigen affinity purified polyclonal antibody (#AAA127480) 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 ITPKC at approximately 100 kDa. The expected band size for ITPKC is at 75 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ITPKC 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-ITPKC antibody	Primary Antibodies
References	1. Chi, H., Huang, F.-Y., Chen, M.-R., Chiu, N.-C., Lee, H.-C., Lin, S.-P., Chen, W.-F., Lin, C.-L., Chan, H.-W., Liu, H.-F., Huang, L.-M., Lee, Y.-J. ITPKC gene SNP rs28493229 and Kawasaki disease in Taiwanese children. Hum. Molec. Genet. 19: 1147-1151, 2010. 2. Dewaste, V., Pouillon, V., Moreau, C., Shears, S., Takazawa, K., Erneux, C. Cloning and expression of a cDNA encoding human inositol 1,4,5-trisphosphate 3-kinase C. Biochem. J. 352: 343-351, 2000.3. Hamosh, A. Personal Communication. Baltimore, Md. 5/6/2020.

NCBI AND UNIPROT INFORMATION

NCBI GI #	18643383
NCBI GeneID	80271
NCBI Accession #	NP_079470.1
NCBI GenBank Nucleotide #	NM_025194.2
UniProt Accession #	Q96DU7 ; Q9UE25 ; Q9Y475
Molecular Weight	75,207 Da
NCBI Official Full Name	inositol-trisphosphate 3-kinase C
NCBI Official Synonym Full Names	inositol-trisphosphate 3-kinase C
NCBI Official Symbol	ITPKC
NCBI Official Synonym Symbols	IP3KC; IP3-3KC
NCBI Protein Information	inositol-trisphosphate 3-kinase C; IP3K C; IP3 3-kinase C; InsP 3 kinase C; insP 3-kinase C; inositol 1,4,5-trisphosphate 3-kinase C
UniProt Protein Name	Inositol-trisphosphate 3-kinase C
UniProt Gene Name	ITPKC
UniProt Synonym Gene Names	IP3KC; IP3 3-kinase C; IP3K C
UniProt Entry Name	IP3KC_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://stage.aaabiotech.com/polyclonal/itpkc-antibody-western-blot-flow-cytometry-elisa/127480>