

Rabbit anti-Human TWF2 Polyclonal Antibody | anti-TWF2 antibody

Anti-TWF2 Antibody Picoband

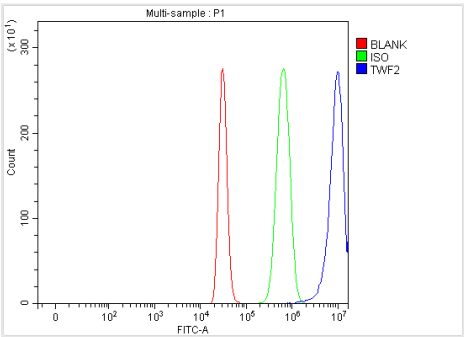
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127607	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

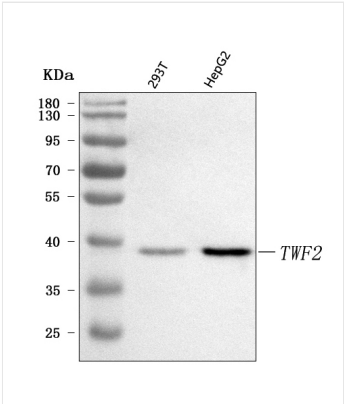
TWF2; Polyclonal Antibody; Anti-TWF2 Antibody Picoband; ATP synthase membrane subunit c locus 1; 2; 3; ATP synthase F (0) complex subunit C1; mitochondrial; ATP synthase lipid-binding protein; ATP synthase proteolipid P1; ATP synthase proton-transporting mitochondrial F (0) complex subunit C1; ATPase protein 9; ATPase subunit c; ATP5MC1; ATP5G1; anti-TWF2 antibody

PRODUCT SPECIFICATIONS

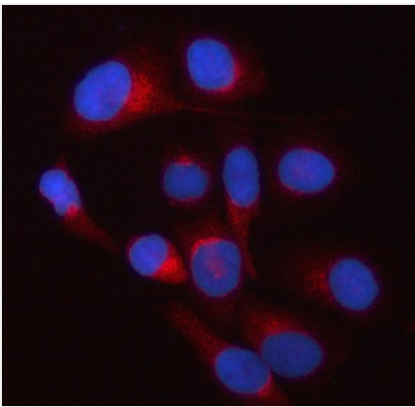
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Highly expressed in thymus, uterus and testis. Detected at lower levels in brain, mammary gland, prostate, salivary gland and fetal spleen. In brain, highest expression in thalamus, hippocampus and amygdala.
Purity/Purification	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-TWF2 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human TWF2 recombinant protein (Position: L13-K327).
Subcellular Localization	Mitochondrion membrane. Multi-pass membrane protein
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	Mitochondrial membrane ATP synthase (F1F0 ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain. F-type ATPases consist of two structural domains, F1 - containing the extramembraneous catalytic core and F0 - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F1 is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Part of the complex F0 domain. A homomeric c-ring of probably 10 subunits is part of the complex rotary element.
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/FACS (Flow Cytometry)
Figure 3. Flow Cytometry analysis of HepG2 cells using anti-TWF2 antibody (AAA127607).Overlay histogram showing HepG2 cells stained with AAA127607 (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-TWF2 Antibody (AAA127607, 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 (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of TWF2 using anti-TWF2 antibody (AAA127607).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 293T whole cell lysates,Lane 2: human HepG2 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-TWF2 antigen affinity purified polyclonal antibody (#AAA127607) 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 TWF2 at approximately 40 kDa. The expected band size for TWF2 is at 40 kDa.



IF (Immunofluorescence)
Figure 2. IF analysis of TWF2 using anti-TWF2 antibody (AAA127607).TWF2 was detected in an immunocytochemical section of HELA 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-TWF2 Antibody (AAA127607) 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.

ADDITIONAL INFORMATION

Related Product Information for anti-TWF2 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-TWF2 antibody	Primary Antibodies; Amino Acid Metabolism; Amino Acids; Cancer; Channels; Metabolic Signaling Pathways; Metabolism; Pathways and Processes; Plasma Membrane; Signal Transduction
References	1. Rohwer, A., Kittstein, W., Marks, F., Gschwendt, M. Cloning, expression and characterization of an A6-related protein. Europ. J. Biochem. 263: 518-525, 1999.

NCBI AND UNIPROT INFORMATION

NCBI GeneID	11344
UniProt Accession #	Q6IBS0
Molecular Weight	Observed Molecular Weight: 40kDa Calculated Molecular Weight: 67169
UniProt Protein Name	Twinfilin-2
UniProt Gene Name	TWF2
UniProt Synonym Gene Names	PTK9L
UniProt Entry Name	TWF2_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/twf2-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127607>