

Rabbit TXNDC17 Polyclonal Antibody | anti-TXNDC17 antibody

Anti-TXNDC17 Antibody Picoband

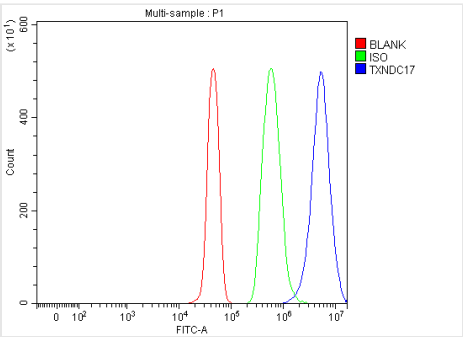
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127608	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

TXNDC17; Polyclonal Antibody; Anti-TXNDC17 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-TXNDC17 antibody

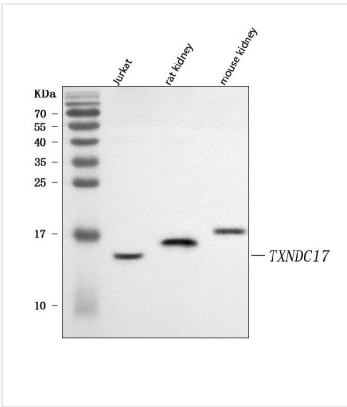
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
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-TXNDC17 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human TXNDC17 recombinant protein (Position: M1-D123).
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 2. Flow Cytometry analysis of JK cells using anti-TXNDC17 antibody (AAA127608).Overlay histogram showing JK cells stained with AAA127608 (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-TXNDC17 Antibody (AAA127608, 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 TXNDC17 using anti-TXNDC17 antibody (AAA127608).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 Jurkat whole cell lysates,Lane 2: rat kidney tissue lysates,Lane 3: 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-TXNDC17 antigen affinity purified polyclonal antibody (#AAA127608) 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 TXNDC17 at approximately 14 kDa. The expected band size for TXNDC17 is at 14 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-TXNDC17 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-TXNDC17 antibody	Primary Antibodies; Amino Acid Metabolism; Amino Acids; Cancer; Channels; Metabolic Signaling Pathways; Metabolism; Pathways and Processes; Plasma Membrane; Signal Transduction
References	1. Hong, S., Huh, J.-E., Lee, S. Y., Shim, J.-K., Rhee, S. G., Jeong, W. TRP14 inhibits osteoclast differentiation via its catalytic activity. Molec. Cell. Biol. 34: 3515-3524, 2014. 2. Jeong, W., Chang, T.-S., Boja, E. S., Fales, H. M., Rhee, S. G. Roles of TRP14, a thioredoxin-related protein in tumor necrosis factor-alpha signaling pathways. J. Biol. Chem. 279: 3151-3159, 2004. 3. Jeong, W., Yoon, H. W., Lee, S.-R., Rhee, S. G. Identification and characterization of TRP14, a thioredoxin-related protein of 14 kDa: new insights into the specificity of the thioredoxin function. J. Biol. Chem. 279: 3142-3150, 2004.

NCBI AND UNIPROT INFORMATION

NCBI GI #	14249348
NCBI GeneID	84817
NCBI Accession #	NP_116120.1
NCBI GenBank Nucleotide #	NM_032731.3
UniProt Accession #	Q9BRA2; A8K7E8
Molecular Weight	13,941 Da
NCBI Official Full Name	thioredoxin domain-containing protein 17
NCBI Official Synonym Full Names	thioredoxin domain containing 17
NCBI Official Symbol	TXNDC17

NCBI Official Synonym Symbols	TRP14; TXNL5
NCBI Protein Information	thioredoxin domain-containing protein 17; 14 kDa thioredoxin-related protein; protein 42-9-9; thioredoxin (Trx)-related protein, 14 kDa; thioredoxin-like 5; thioredoxin-like protein 5
UniProt Protein Name	Thioredoxin domain-containing protein 17
UniProt Gene Name	TXNDC17
UniProt Synonym Gene Names	TXNL5; TRP14
UniProt Entry Name	TXD17_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/txndc17-antibody-flow-cytometry-western-blot-elisa/127608>