

Rabbit anti-Human TMEM104 Polyclonal Antibody | anti-TMEM104 antibody

Anti-TMEM104 Antibody Picoband

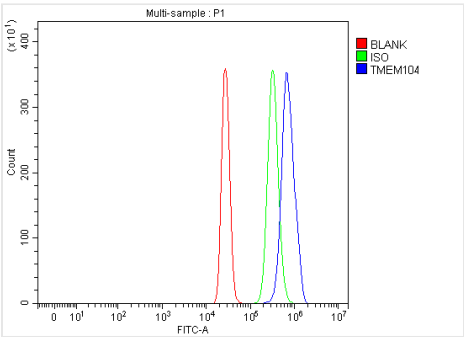
CATALOG # AAA127884	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Flow Cytometry, Functional Assay, Western Blot
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PRODUCT SYNONYMS

TMEM104; Polyclonal Antibody; Anti-TMEM104 Antibody Picoband; Transmembrane protein 240; kelch repeat and BTB domain containing 2; Kelch repeat and BTB domain-containing protein 2; BTB and kelch domain-containing protein 1; KBTBD2; BKLHD1; KIAA1489; anti-TMEM104 antibody

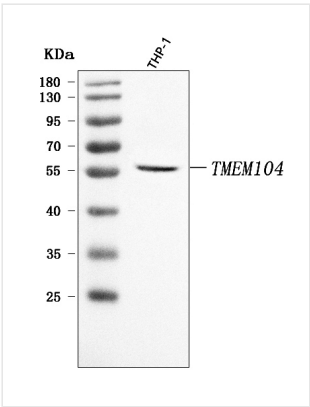
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Detected in liver, skeletal muscle, kidney, pancreas, spleen, thyroid, testis, ovary, small intestine and colon.
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-TMEM104 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human TMEM104 recombinant protein (Position: D88-D448).
Subcellular Localization	Cul3-RING ubiquitin ligase complex
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	Required for DNA double-strand breaks (DSBs) formation in unsynapsed regions during meiotic recombination. Probably acts by forming a complex with MEI4 and REC114, which activates DSBs formation in unsynapsed regions, an essential step to ensure completion of synapsis. Not required for HORMAD1 functions in pairing-independent synaptonemal complex formation, ATR recruitment to unsynapsed axes, meiotic silencing of unsynapsed chromatin (MSUC) or meiotic surveillance.
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 HepG2 cells using anti-TMEM104 antibody (AAA127884). Overlay histogram showing HepG2 cells stained with AAA127884 (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-TMEM104 Antibody (AAA127884, 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 TMEM104 using anti-TMEM104 antibody (AAA127884). 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 THP-1 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-TMEM104 antigen affinity purified polyclonal antibody (#AAA127884) 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 TMEM104 at approximately 56 kDa. The expected band size for TMEM104 is at 56 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-TMEM104 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-TMEM104 antibody	Primary Antibodies; Cell Biology
References	1. Shi, P. , Guo, Y. , Su, Y. , Zhu, M. , & Huang, J. . (2020). Sumoylation of ddx39a alters binding and export of antiviral transcripts to control innate immunity. The Journal of Immunology, 205(1), ji2000053.2. Huttlin, E. , Ting, L. , Bruckner, R. , Gebreab, F. , Gygi, M. , & Szpyt, J. , et al. (2015). The bioplex network: a systematic exploration of the human interactome. Cell, 162(2), 425-440.3. Ota, T. , Suzuki, Y. , Nishikawa, T. , Otsuki, T. , & Sugano, S. . (2004). Complete sequencing and characterization of 21,243 full-length human cdnas. Nature Genetics, 36(1), 40-45.

NCBI AND UNIPROT INFORMATION

NCBI GI #	157388943
NCBI GeneID	54868
NCBI Accession #	NP_060198.3
NCBI GenBank Nucleotide #	NM_017728.3
UniProt Accession #	Q8NE00; Q8TEU1; Q9NT56; Q9NXH1
Molecular Weight	55,679 Da
NCBI Official Full Name	transmembrane protein 104
NCBI Official Synonym Full Names	transmembrane protein 104
NCBI Official Symbol	TMEM104

NCBI Protein Information	transmembrane protein 104
UniProt Protein Name	Transmembrane protein 104
UniProt Gene Name	TMEM104
UniProt Entry Name	TM104_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/tmem104-antibody-flow-cytometry-western-blot-elisa/127884>