Rabbit MTCL1 Polyclonal Antibody | anti-MTCL1 antibody

Anti-MTCL1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127685	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

MTCL1; Polyclonal Antibody; Anti-MTCL1 Antibody Picoband; interleukin 17B; Interleukin-17B; IL-17B; Cytokine CX1; Cytokine-like protein ZCYTO7; Neuronal interleukin-17-related factor; Il17b; Nirf; Zcyto7; anti-MTCL1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in adult pancreas, small intestine, stomach, spinal cord and testis. Less pronounced expression in prostate, colon mucosal lining, and ovary.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-MTCL1 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human MTCL1 recombinant protein (Position: K884-D1522).
Subcellular Localization	Secreted
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	Stimulates the release of tumor necrosis factor alpha and IL-1-beta from the monocytic cell line THP-1.
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.

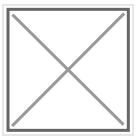
IMAGES



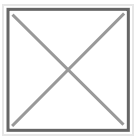
FCM/FACS (Flow Cytometry)
Figure 5. Flow Cytometry analysis of U20S cells using anti-MTCL1 antibody (AAA127685).Overlay histogram showing U20S cells stained with AAA127685 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MTCL1 Antibody (AAA127685, 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.



IHC (Immunohistochemistry)
Figure 4. IHC analysis of MTCL1 using anti-MTCL1 antibody (AAA127685).MTCL1 was detected in a paraffin-embedded section of rat cerebellum 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 2ug/ml rabbit anti-MTCL1 Antibody (AAA127685) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemisry)
Figure 3. IHC analysis of MTCL1 using anti-MTCL1 antibody (AAA127685).MTCL1 was detected in a paraffin-embedded section of mouse cerebellum 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 2ug/ml rabbit anti-MTCL1 Antibody (AAA127685) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohiostchemistry)
Figure 2. IHC analysis of MTCL1 using anti-MTCL1 antibody (AAA127685).MTCL1 was detected in a paraffin-embedded section of human colorectal adenocarcinoma 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 2ug/ml rabbit anti-MTCL1 Antibody (AAA127685) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of MTCL1 using anti-MTCL1 antibody (AAA127685).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: rat lung tissue lysates,Lane 3: rat ovary tissue lysates,Lane 4: mouse lung tissue lysates,Lane 5: mouse ovary 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-MTCL1 antigen affinity purified polyclonal antibody (#AAA127685) 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 MTCL1 at approximately 270-300 kDa. The expected band size for MTCL1 is at 210 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MTCL1 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-MTCL1 antibody	Primary Antibodies; Cytokines; Immunology; Innate Immunity; Interleukins
References	1. Hartz, P. A. Personal Communication. Baltimore, Md. 4/28/2014.2. Nagase, T., Ishikawa, K., Suyama, M., Kikuno, R., Miyajima, N., Tanaka, A., Kotani, H., Nomura, N., Ohara, O. Prediction of the coding sequences of unidentified human genes. XI. The complete sequences of 100 new cDNA clones from brain which code for large proteins in vitro. DNA Res. 5: 277-286, 1998. 3. Sato, Y., Akitsu, M., Amano, Y., Yamashita, K., Ide, M., Shimada, K., Yamashita, A., Hirano, H., Arakawa, N., Maki, T., Hayashi, I., Ohno, S., Suzuki, A. The novel PAR-1-binding protein MTCL1 has crucial roles in organizing microtubules in polarizing epithelial cells. J. Cell Sci. 126: 4671-4683, 2013.

NCBI AND UNIPROT INFORMATION

NCBI GI #	163644316
NCBI GeneID	23255
NCBI Accession #	NP_056025.2
NCBI GenBank Nucleotide #	NM_015210.3
UniProt Accession #	Q9Y4B5; Q6ZMQ9; Q8IWA9; E9PAY7
Molecular Weight	209,526 Da
NCBI Official Full Name	microtubule cross-linking factor 1

NCBI Official Synonym Full Names	microtubule crosslinking factor 1
NCBI Official Symbol	MTCL1
NCBI Official Synonym Symbols	SOGA2; CCDC165; KIAA0802
NCBI Protein Information	microtubule cross-linking factor 1; protein SOGA2; SOGA family member 2; PAR-1-interacting protein; coiled-coil domain containing 165; coiled-coil domain-containing protein 165
UniProt Protein Name	Microtubule cross-linking factor 1
UniProt Gene Name	**MTCL1**
UniProt Synonym Gene Names	CCDC165; KIAA0802; SOGA2
UniProt Entry Name	MTCL1_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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