

Rabbit TMBIM1 Polyclonal Antibody | anti-TMBIM1 antibody

Anti-TMBIM1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125812	Rabbit	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

TMBIM1; Polyclonal Antibody; Anti-TMBIM1 Antibody; LFG3; RECS1; PP1201; PSEC0158; Protein lifeguard 3; Protein RECS1 homolog; Transmembrane BAX inhibitor motif-containing protein 1; transmembrane BAX inhibitor motif containing 1; anti-TMBIM1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for TMBIM1 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg NaN ₃ .
Applicable Applications for anti-TMBIM1 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of human TMBIM1 (EWDDRKVRHTFIRKVY).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of HepG2 cells using anti-TMBIM1 antibody (AAA125812). Overlay histogram showing HepG2 cells stained with AAA125812 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-TMBIM1 Antibody (AAA125812, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



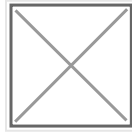
IHC (Immunohistochemistry)

Figure 4. IHC analysis of TMBIM1 using anti-TMBIM1 antibody (AAA125812). TMBIM1 was detected in paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-TMBIM1 Antibody (AAA125812) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemisry)

Figure 3. IHC analysis of TMBIM1 using anti-TMBIM1 antibody (AAA125812).TMBIM1 was detected in paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-TMBIM1 Antibody (AAA125812) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of TMBIM1 using anti-TMBIM1 antibody (AAA125812).TMBIM1 was detected in paraffin-embedded section of human gastric cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-TMBIM1 Antibody (AAA125812) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

WB (Western Blot)

Figure 1. Western blot analysis of TMBIM1 using anti-TMBIM1 antibody (AAA125812).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 50ug of sample under reducing conditions.Lane 1: human HepG2 whole cell lysatesLane 2: human A431 whole cell lysatesLane 3: human CACO-2 whole cell lysatesLane 4: human A549 whole cell lysatesLane 5: rat liver tissue lysatesLane 6: mouse kidney tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-TMBIM1 antigen affinity purified polyclonal antibody (Catalog # AAA125812) at 0. 25 μg/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 TMBIM1 at approximately 35KD. The expected band size for TMBIM1 is at 35KD.

ADDITIONAL INFORMATION

Related Product Information for anti-TMBIM1 antibody	Transmembrane BAX inhibitor motif-containing protein 1 is a protein that in humans is encoded by the TMBIM1 gene. TMBIM1 is a member of the 7 TMS (7 transmembrane domains) family of receptors known to mediate the activation of various transcription factors. TMBIM1 is identified as a novel modulator of NF-kB activation. A drosophila homolog of this protein (dNMDA1 with 40% homology to hTMBIM1) is reported to be unregulated during aging and oxidative stress.
References	1. Yoshisue, H., Suzuki, K., Kawabata, A., Ohya, T., Zhao, H., Sakurada, K., Taba, Y., Sasguri, T., Sakai, N., Yamashita, S., Matsuzawa, Y., Nojima, H. Large scale isolation of non-uniform shear stress-responsive genes from cultured endothelial cells through the preparation of a subtracted cDNA library. Atherosclerosis 162: 323-334, 2002. 2. Zhao, H., Ito, A., Kimura, S. H., Yabuta, N., Sakai, N., Ikawa, M., Okabe, M., Matsuzawa, Y., Yamashita, S., Nojima, H. RECS1 deficiency in mice induces susceptibility to cystic medial degeneration. Genes Genet. Syst. 81: 41-50, 2006. 3. Zhao, H., Ito, A., Sakai, N., Matsuzawa, Y., Yamashita, S., Nojima, H. RECS1 is a negative regulator of matrix metalloproteinase-9 production and aged RECS1 knockout mice are prone to aortic dilation. Circ. J. 70: 615-624, 2006.

NCBI AND UNIPROT INFORMATION

NCBI GI #	50593008
NCBI GeneID	64114
NCBI Accession #	NP_071435.2
NCBI GenBank Nucleotide #	NM_022152.4
UniProt Accession #	Q969X1; Q8N1R3; Q8TAM3; Q96K13; B3KQY6
Molecular Weight	34,607 Da

NCBI Official Full Name	protein lifeguard 3
NCBI Official Synonym Full Names	transmembrane BAX inhibitor motif containing 1
NCBI Official Symbol	TMBIM1
NCBI Official Synonym Symbols	LFG3; RECS1; MST100; PP1201; MSTP100
NCBI Protein Information	protein lifeguard 3; transmembrane BAX inhibitor motif-containing protein 1
UniProt Protein Name	Protein lifeguard 3
UniProt Gene Name	TMBIM1
UniProt Synonym Gene Names	LFG3; RECS1
UniProt Entry Name	LFG3_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://stage.aaabiotech.com/polyclonal/tmbim1-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/125812>