

Rabbit Tropomyosin 2/TPM2 Polyclonal Antibody | anti-TPM2 antibody

Anti-Tropomyosin 2/TPM2 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19476	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay

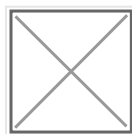
PRODUCT SYNONYMS

Tropomyosin 2/TPM2; Polyclonal Antibody; Anti-Tropomyosin 2/TPM2 Antibody Picoband; anti-TPM2 antibody

PRODUCT SPECIFICATIONS

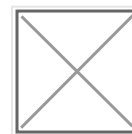
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-TPM2 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Application Notes	WB: 0.25-0.5 ug/ml, Human, Mouse, Rat IHC-P: 2-5 ug/ml, Human FC/FACS: 1-3 ug/1x10 ⁶ cells, Human, Mouse, Rat Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC(P).
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	A synthetic peptide corresponding to a sequence of human Tropomyosin 2/TPM2 (KQAEDRCKQLEEEQALQK).
Preparation and Storage	Store 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 (Flow Cytometry)

Figure 8. Flow Cytometry analysis of RH35 cells using anti-Tropomyosin 2/TPM2 antibody (AAA19476). Overlay histogram showing RH35 cells stained with AAA19476 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Tropomyosin 2/TPM2 Antibody (AAA19476, 1 ug/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 (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM (Flow Cytometry)

Figure 7. Flow Cytometry analysis of ANA-1 cells using anti-Tropomyosin 2/TPM2 antibody (AAA19476). Overlay histogram showing ANA-1 cells stained with AAA19476 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Tropomyosin 2/TPM2 Antibody (AAA19476, 1 ug/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 (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



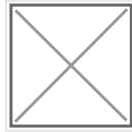
FCM (Flow Cytometry)

Figure 6. Flow Cytometry analysis of SiHa cells using anti-Tropomyosin 2/TPM2 antibody (AAA19476). Overlay histogram showing SiHa cells stained with AAA19476 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Tropomyosin 2/TPM2 Antibody (AAA19476, 1 ug/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 (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



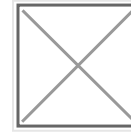
IHC (Immunohistochemistry)

Figure 5. IHC analysis of Tropomyosin 2/TPM2 using anti-Tropomyosin 2/TPM2 antibody (AAA19476). Tropomyosin 2/TPM2 was detected in a paraffin-embedded section of human spleen 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 2 ug/ml rabbit anti-Tropomyosin 2/TPM2 Antibody (AAA19476) 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 (Immunohistochemistry)

Figure 4. IHC analysis of Tropomyosin 2/TPM2 using anti-Tropomyosin 2/TPM2 antibody (AAA19476). Tropomyosin 2/TPM2 was detected in a paraffin-embedded section of human placenta 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 2 ug/ml rabbit anti-Tropomyosin 2/TPM2 Antibody (AAA19476) 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 (Immunohistochemistry)

Figure 3. IHC analysis of Tropomyosin 2/TPM2 using anti-Tropomyosin 2/TPM2 antibody (AAA19476). Tropomyosin 2/TPM2 was detected in a paraffin-embedded section of human lung 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 2 ug/ml rabbit anti-Tropomyosin 2/TPM2 Antibody (AAA19476) 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.

ADDITIONAL INFORMATION

Related Product Information for anti-TPM2 antibody	beta-Tropomyosin, also known as tropomyosin beta chain is a protein that in humans is encoded by the TPM2 gene. This gene encodes beta-tropomyosin, a member of the actin filament binding protein family, and mainly expressed in slow, type 1 muscle fibers. Mutations in this gene can alter the expression of other sarcomeric tropomyosin proteins, and cause cap disease, nemaline myopathy and distal arthrogryposis syndromes. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Product Categories/Family for anti-TPM2 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	47519616
NCBI GeneID	7169
NCBI Accession #	NP_998839.1
NCBI GenBank Nucleotide #	NM_213674.1
UniProt Accession #	P07951 ; P06468 ; Q13894 ; Q53FM4 ; Q5TCU4 ; Q5TCU7 ; Q9UJH7 ; A6NM85
Molecular Weight	32,851 Da
NCBI Official Full Name	tropomyosin beta chain isoform 2
NCBI Official Synonym Full Names	tropomyosin 2 (beta)
NCBI Official Symbol	TPM2
NCBI Official Synonym Symbols	DA1; DA2B; NEM4; TMSB; AMCD1; HEL-S-273
NCBI Protein Information	tropomyosin beta chain; nemaline myopathy type 4; epididymis secretory protein Li 273
UniProt Protein Name	Tropomyosin beta chain
UniProt Gene Name	TPM2

UniProt Synonym Gene Names	TMSB
UniProt Entry Name	TPM2_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/tropomyosin-2-tpm2-antibody-western-blot-immunohistochemistry-flow-cytometry-elisa/19476>