

Rabbit Tripeptidyl peptidase II/TPPII/TPP2 Polyclonal Antibody | anti-TPP2 antibody

Anti-Tripeptidyl peptidase II/TPPII/TPP2 Antibody Picoband

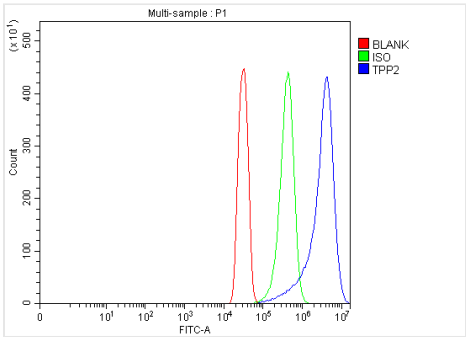
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19572	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

Tripeptidyl peptidase II/TPPII/TPP2; Polyclonal Antibody; Anti-Tripeptidyl peptidase II/TPPII/TPP2 Antibody Picoband; anti-TPP2 antibody

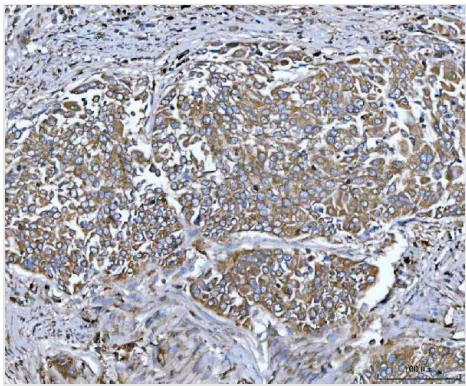
PRODUCT SPECIFICATIONS

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-TPP2 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.1-0.25 ug/ml, Human, Mouse, Rat IHC-P: 2-5 ug/ml, Human ICC/IF: 5 ug/ml, Human FC/FACS: 1-3 ug/1x10 ⁶ cells, Human Direct ELISA: 0.1-0.5 ug/ml, Human 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) and ICC.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human Tripeptidyl peptidase II/TPPII/TPP2 recombinant protein (Position: E32-K1001).
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.



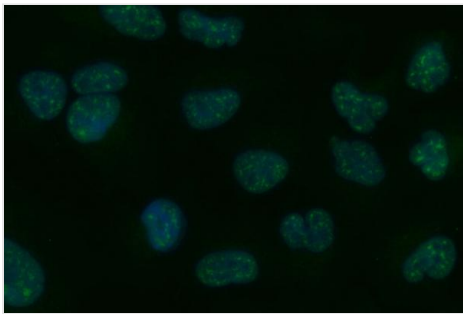
FCM (Flow Cytometry)

Figure 7. Flow Cytometry analysis of SiHa cells using anti-Tropomyosin 2/TPM2 antibody (AAA19572).Overlay histogram showing SiHa cells stained with AAA19572 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Tropomyosin 2/TPM2 Antibody (AAA19572, 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.



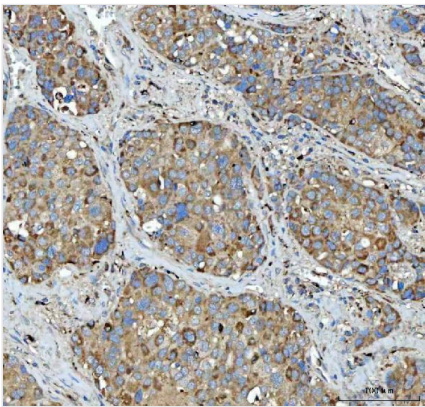
IHC (Immunohistochemistry)

Figure 5. IHC analysis of Tripeptidyl peptidase II/TPPII/TPP2 using anti-Tripeptidyl peptidase II/TPPII/TPP2 antibody (AAA19572).Tripeptidyl peptidase II/TPPII/TPP2 was detected in a paraffin-embedded section of human lung cancer 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-Tripeptidyl peptidase II/TPPII/TPP2 Antibody (AAA19572) 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.



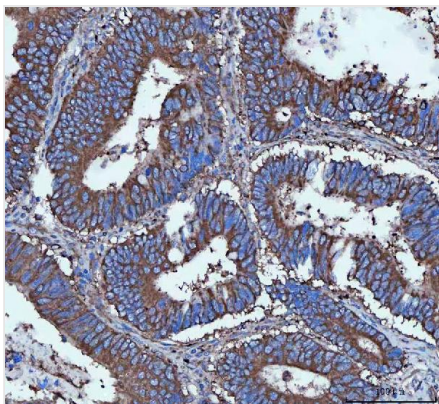
IF (Immunofluorescence)

Figure 6. IF analysis of Tripeptidyl peptidase II/TPPII/TPP2 using anti-Tripeptidyl peptidase II/TPPII/TPP2 antibody (AAA19572).Tripeptidyl peptidase II/TPPII/TPP2 was detected in an immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-Tripeptidyl peptidase II/TPPII/TPP2 Antibody (AAA19572) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



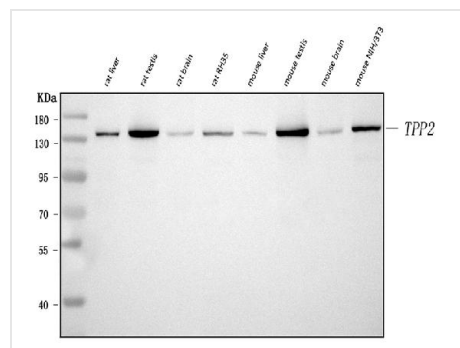
IHC (Immunohistochemistry)

Figure 4. IHC analysis of Tripeptidyl peptidase II/TPPII/TPP2 using anti-Tripeptidyl peptidase II/TPPII/TPP2 antibody (AAA19572).Tripeptidyl peptidase II/TPPII/TPP2 was detected in a paraffin-embedded section of human liver cancer 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-Tripeptidyl peptidase II/TPPII/TPP2 Antibody (AAA19572) 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 Tripeptidyl peptidase II/TPPII/TPP2 using anti-Tripeptidyl peptidase II/TPPII/TPP2 antibody (AAA19572). Tripeptidyl peptidase II/TPPII/TPP2 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 2 ug/ml rabbit anti-Tripeptidyl peptidase II/TPPII/TPP2 Antibody (AAA19572) 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 2. Western blot analysis of Tripeptidyl peptidase II/TPPII/TPP2 using anti-Tripeptidyl peptidase II/TPPII/TPP2 antibody (AAA19572). 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: rat liver tissue lysates, Lane 2: rat testis tissue lysates, Lane 3: rat brain tissue lysates, Lane 4: rat RH35 whole cell lysates, Lane 5: mouse liver tissue lysates, Lane 6: mouse testis tissue lysates, Lane 7: mouse brain tissue lysates, Lane 8: mouse NIH/3T3 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-Tripeptidyl peptidase II/TPPII/TPP2 antigen affinity purified polyclonal antibody (#AAA19572) at 0.25 ug/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 Tripeptidyl peptidase II/TPPII/TPP2 at approximately 138 kDa. The expected band size for Tripeptidyl peptidase II/TPPII/TPP2 is at 138 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-TPP2 antibody	Tripeptidyl-peptidase 2 is an enzyme that in humans is encoded by the TPP2 gene. This gene encodes a mammalian peptidase that, at neutral pH, removes tripeptides from the N terminus of longer peptides. The protein has a specialized function that is essential for some MHC class I antigen presentation. The protein is a high molecular mass serine exopeptidase; the amino acid sequence surrounding the serine residue at the active site is similar to the peptidases of the subtilisin class rather than the trypsin class.
Product Categories/Family for anti-TPP2 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	34223721
NCBI GeneID	7174
UniProt Accession #	P29144; Q5VZU8
Molecular Weight	138,350 Da
NCBI Official Full Name	Tripeptidyl-peptidase 2
NCBI Official Synonym Full Names	tripeptidyl peptidase 2
NCBI Official Symbol	TPP2
NCBI Official Synonym Symbols	TPP-2; TPPII; TPP-II
NCBI Protein Information	tripeptidyl-peptidase 2
UniProt Protein Name	Tripeptidyl-peptidase 2
UniProt Gene Name	TPP2
UniProt Synonym Gene Names	TPP-2; TPP-II

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/tripeptidyl-peptidase-ii-tpii-tp2-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/19572>