

Rabbit anti-Human IPT/TRIT1 Polyclonal Antibody | anti-TRIT1 antibody

Anti-IPT/TRIT1 Antibody Picoband

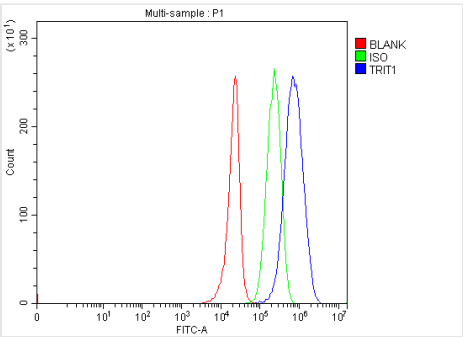
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126509	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

IPT/TRIT1; Polyclonal Antibody; Anti-IPT/TRIT1 Antibody Picoband; anti-TRIT1 antibody

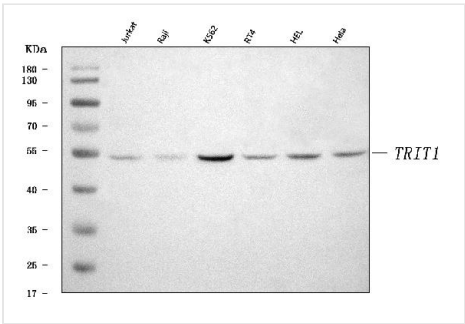
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
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-TRIT1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human IPT/TRIT1 recombinant protein (Position: L16-K415).
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/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of 293T cells using anti-IPT/TRIT1 antibody (AAA126509).Overlay histogram showing 293T cells stained with AAA126509 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-IPT/TRIT1 Antibody (AAA126509, 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.



WB (Western Blot)

Figure 1. Western blot analysis of IPT/TRIT1 using anti-IPT/TRIT1 antibody (AAA126509).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 Jurkat whole cell lysates,Lane 2: human Raji whole cell lysates,Lane 3: human K562 whole cell lysates,Lane 4: human RT4 whole cell lysates,Lane 5: human HEL whole cell lysates,Lane 6: human Hela 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-IPT/TRIT1 antigen affinity purified polyclonal antibody (#AAA126509) at 0.5 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 IPT/TRIT1 at approximately 53 kDa. The expected band size for IPT/TRIT1 is at 53 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-TRIT1 antibody	tRNA isopentenyltransferase, mitochondrial is an enzyme that in humans is encoded by the TRIT1 gene. This gene encodes a protein that that is targeted to the mitochondrion and modifies transfer RNAs (tRNAs) by adding a dimethylallyl group onto the adenine at position 37. This modification is important for maintaining the correct reading frame during protein translation. This gene is considered a tumor suppressor and its expression can decrease cell growth. Alternative splicing results in multiple transcripts variants, most of which are likely non-functional.
Product Categories/Family for anti-TRIT1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	31581534
NCBI GeneID	54802
NCBI Accession #	NP_060116.2
NCBI GenBank Nucleotide #	NM_017646.4
UniProt Accession #	Q9H3H1; Q3T7B5; Q5QPK5; Q5QPK6; Q6IAC9; Q96FJ3; Q96L45; Q9NXT7; A1A4X7
Molecular Weight	52,725 Da
NCBI Official Full Name	tRNA dimethylallyltransferase, mitochondrial
NCBI Official Synonym Full Names	tRNA isopentenyltransferase 1
NCBI Official Symbol	TRIT1
NCBI Official Synonym Symbols	IPT; MOD5
NCBI Protein Information	tRNA dimethylallyltransferase, mitochondrial; IPPT; hGRO1; IPTase; IPP transferase; tRNA isopentenylpyrophosphate transferase; isopentenyl-diphosphate:tRNA isopentenyltransferase
UniProt Protein Name	tRNA dimethylallyltransferase, mitochondrial

UniProt Gene Name	TRIT1
UniProt Synonym Gene Names	IPT; MOD5; IPP transferase; IPPT; IPTase
UniProt Entry Name	MOD5_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/ipt-trit1-antibody-flow-cytometry-western-blot-elisa/126509>