

Rabbit anti-Human, Mouse TYW2 Polyclonal Antibody | anti-TRMT12 antibody

TYW2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA39707	Rabbit	Human, Mouse	Immunocytochemistry, Western Blot, ELISA

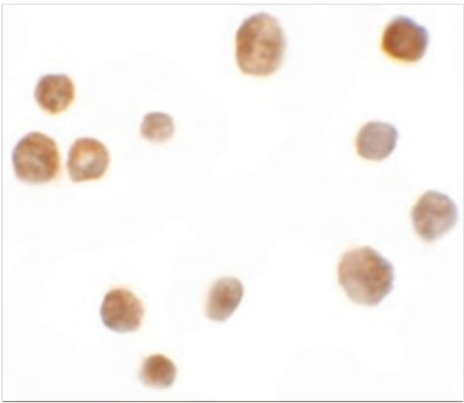
PRODUCT SYNONYMS

TYW2; Polyclonal Antibody; TYW2 Antibody; TRM12; tRNA wybutosine-synthesizing protein 2 homolog; Alpha-amino-alpha-carboxypropyl transferase TYW2; tRNA-yW-synthesizing protein 2; tRNA methyltransferase 12 homolog; anti-TRMT12 antibody

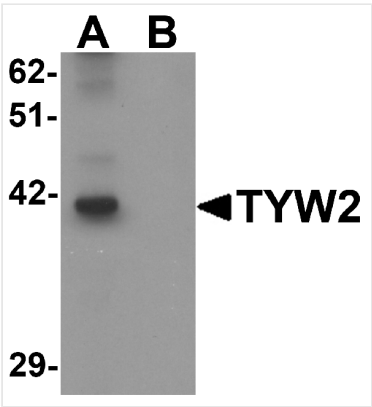
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	TYW2 antibody is predicted to not cross-react with other TYW protein family members. At least two isoforms of TYW2 are known to exist; this antibody will detect both isoforms
Purity/Purification	TYW2 Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	448
Applicable Applications for anti-TRMT12 antibody	ICC (Immunocytochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	TYW2 antibody was raised against a 19 amino acid synthetic peptide near the amino terminus of human TYW2.
Buffer	TYW2 Antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	TYW2 antibody can be stored at 4 degree C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

IMAGES



ICC (Immunocytochemistry)
Immunocytochemistry of TYW2 in K562 cells with TYW2 antibody at 10 μg/mL.



WB (Western Blot)
Western blot analysis of TYW2 in K562 cell lysate with TYW2 antibody at 0.5 μg/mL in (A) the absence and (B) the presence of blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-TRMT12 antibody	TYW2 Antibody: TYW2, also known as TRM12, is an enzyme that participates in the wybutosine-tRNA (Phe) biosynthesis pathway. Wybutosine (yW) is a hypermodified guanosine at the 3-prime position adjacent to the anticodon of phenylalanine tRNA that stabilizes codon-anticodon interactions during decoding on the ribosome. TYW2 is involved in a multistep enzymatic reaction that stabilizes codon-anticodon base-pairing during the ribosomal decoding process, thereby ensuring correct translation. TYW2 was found to be amplified in 7 of 8 breast cancers cell lines analyzed, and qPCR analysis of 30 breast tumors showed overexpression of TYW2 mRNA of over 2-fold in 26, suggesting that TYW2 may play a role in breast cancer.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	157388919
NCBI GeneID	55039
NCBI Accession #	NP_060426.2
NCBI GenBank Nucleotide #	NM_017956.3
UniProt Accession #	Q53H54; Q6PKB9; Q96F21; Q9NWK6
Molecular Weight	50,236 Da
NCBI Official Full Name	tRNA wybutosine-synthesizing protein 2 homolog
NCBI Official Synonym Full Names	tRNA methyltransferase 12 homolog (S. cerevisiae)
NCBI Official Symbol	TRMT12
NCBI Official Synonym Symbols	TYW2; TRM12
NCBI Protein Information	tRNA wybutosine-synthesizing protein 2 homolog; tRNA-yW synthesizing protein 2; tRNA-yW-synthesizing protein 2; tRNA methyltransferase 12 homolog; homolog of yeast tRNA methyltransferase; alpha-amino-alpha-carboxypropyl transferase TYW2; tRNA(Phe) (4-demethylwyosine(37)-C(7)) aminocarboxypropyltransferase
UniProt Protein Name	tRNA wybutosine-synthesizing protein 2 homolog
UniProt Gene Name	TRMT12
UniProt Synonym Gene Names	TRM12; TYW2; tRNA-yW-synthesizing protein 2
UniProt Entry Name	TYW2_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/tyw2-antibody-immunocytochemistry-western-blot-elisa/39707>