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Datasheet for 600-401-FT3

TYW2 Antibody

Overview

Description:	Anti-TYW2 (RABBIT) Antibody - 600-401-FT3
Item No.:	600-401-FT3
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	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.
Synonyms:	TYW2 Antibody, TYW2, TRM12, TYW2, tRNA wybutosine-synthesizing protein 2 homolog, Alpha-amino-alpha-carboxypropyl transferase TYW2, tRNA-yW-synthesizing protein 2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TRMT12
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-TYW2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid synthetic peptide near the N-terminus of human TYW2.

Purity/Specificity:	Anti-TYW2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. 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
Relevant Links:	• UniProtKB - Q53H54 • GeneID - 55039 • NCBI - NP_060426.2

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-TYW2 Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 50 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000
WB:	0.5 µg/mL

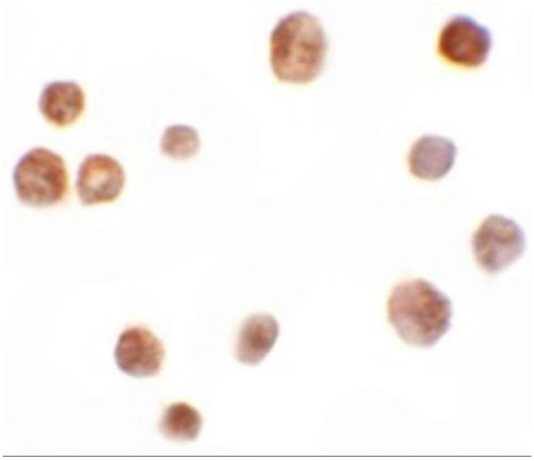
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

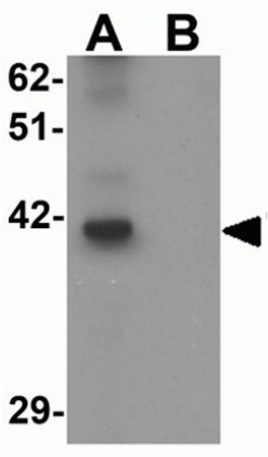
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunocytochemistry
Immunocytochemistry of TYW2.
Cell: K562 cells.
Primary Antibody: TYW2 antibody at 10 µg/mL.



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

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