

Anti-TYW2 TRMT12 Antibody

Catalog Number: A15532

About TRMT12

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.

Overview

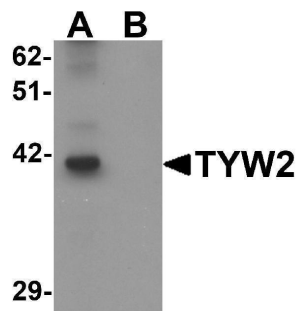
Product Name	Anti-TYW2 TRMT12 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-TYW2 TRMT12 Antibody (Catalog # A15532). Tested in ELISA, WB, ICC applications. This antibody reacts with Human, Mouse.
Application	ELISA, ICC, WB
Clonality	Polyclonal
Formulation	TYW2 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	TYW2 antibody can be stored at 4 °C, stable for one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q53H54

Technical Details

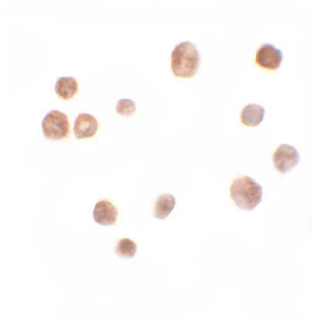
Immunogen	TYW2 antibody was raised against a 19 amino acid synthetic peptide near the amino terminus of human TYW2. The immunogen is located within the first 50 amino acids of TYW2.
Predicted Reactive Species	Bovine
Cross Reactivity	TYW2 antibody is predicted to not cross-react with other TYW protein family members. At least two isoforms of TYW2 are known to exist; this antibody will detect both isoforms
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL

Purification	TYW2 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	TYW2 antibody can be used for detection of TYW2 by Western blot at 0.5 ug/mL. Antibody can also be used for immunocytochemistry starting at 10 ug/mL. Antibody validated: Western Blot in human samples and Immunocytochemistry in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

Anti-TYW2 TRMT12 Antibody (A15532) Images



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



Immunocytochemistry of TYW2 in K562 cells with TYW2 antibody at 10 ug/mL.

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