BOSTER BIOLOGICAL TECHNOLOGY
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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.

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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 ≤0.09% 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

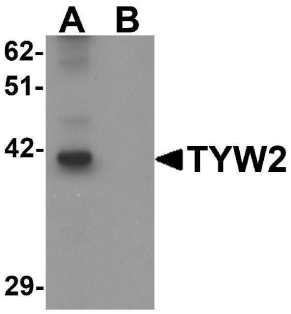
Immunogen	TYW2 antibody was raised against a 19 amino acid synthetic peptide near the amino terminus of human TYW2. The immunogen is located within the first 50 amino acids of TYW2.
Predicted Reactive Species	Bovine

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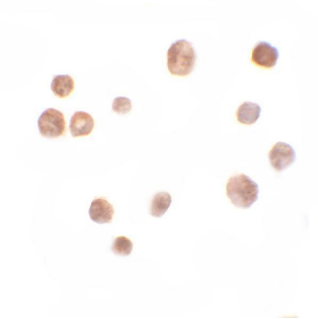
Cross Reactivity	TYW2 antibody is predicted to not cross-react with other TYW protein family members. At least two isoforms of TYW2 are known to exist; this antibody will detect both isoforms
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	TYW2 Antibody is affinity chromatography purified 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.

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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.

Anti-TYW2 TRMT12 Antibody

For Research Use Only. Not for use in diagnostic procedures.