

## TYW2 Antibody

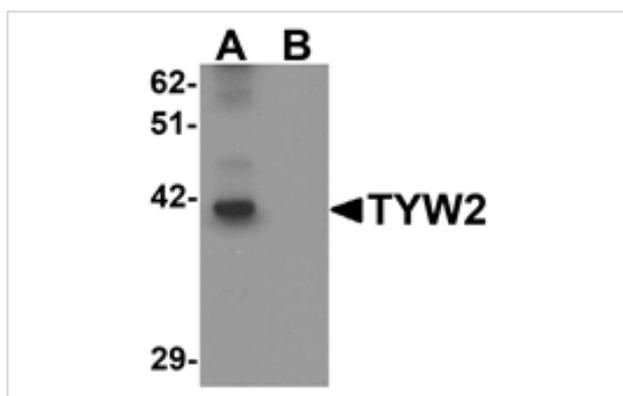
Catalog No: #25315

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## Description

Product Name	TYW2 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	E WB
Species Reactivity	Hu Ms
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
Immunogen Type	Peptide
Immunogen Description	Raised against a 19 amino acid peptide near the amino terminus of human TYW2.
Target Name	TYW2
Other Names	TYW2, Radical S-adenosyl methionine and flavodoxin domain-containing protein 2, tRNA wybutosine-synthesizing protein 2 homolog, TRM12, TRMT12
Accession No.	Q53H54
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at 4 °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



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.

## 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.

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.