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## anti-TRMT12 antibody (N-Term)



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Quantity:	0.1 mg
Target:	TRMT12
Binding Specificity:	N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TRMT12 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunocytochemistry (ICC)
Product 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.
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
Purification:	TYW2 Antibody is affinity chromatography purified via peptide column.
Target Details	
Target:	TRMT12
Alternative Name:	TYW2 (TRMT12 Products)

## **Target Details**

Background:	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.
Gene ID:	55039
UniProt:	Q53H54
Application Details	
Application Notes:	TYW2 antibody can be used for detection of TYW2 by Western blot at 0.5 μ,g/mL. Antibody car
	also be used for immunocytochemistry starting at 10 $\mu$ ,g/mL.
	Antibody validated: Western Blot in human samples and Immunocytochemistry in human
	samples. All other applications and species not yet tested.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	TYW2 Antibody is supplied in PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	TYW2 antibody 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.