

## Datasheet for ABIN783482 **anti-TRMT12 antibody (N-Term)**



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### Overview

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:	Western Blotting (WB), Enzyme Immunoassay (EIA)

### Product Details

Immunogen:	19 amino acid peptide near the amino terminus of human TYW2
Specificity:	This antibody detects TRMT12 at N-term. 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.
Cross-Reactivity (Details):	Species reactivity (tested): Human, mouse
Purification:	Affinity chromatography purified via peptide column

### Target Details

Target:	TRMT12
Alternative Name:	TRMT12 ( <a href="#">TRMT12 Products</a> )

## Target 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: TRM12, TYW2, tRNA methyltransferase 12, tRNA wybutosine-synthesizing protein 2 homolog, tRNA-yW-synthesizing protein 2
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Gene ID:	55039
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NCBI Accession:	<a href="#">NP_060426</a>
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UniProt:	<a href="#">Q53H54</a>
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## Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
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Restrictions:	For Research Use only
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## Handling

Buffer:	PBS containing 0.02 % sodium azide
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Preservative:	Sodium azide
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Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Handling Advice:	Avoid repeated freezing and thawing.
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Storage:	4 °C/-20 °C
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Storage Comment:	Store at 2 - 8 °C for up to three months or (in aliquots) at -20 °C for longer.
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