



[Go to Product page](#)

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

### 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

---

**Gene ID:** 55039

---

**NCBI Accession:** [NP\\_060426](#)

---

**UniProt:** [Q53H54](#)

## Application Details

---

**Application Notes:** Optimal working dilution should be determined by the investigator.

---

**Restrictions:** For Research Use only

## Handling

---

**Buffer:** 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.

---

**Handling Advice:** Avoid repeated freezing and thawing.

---

**Storage:** 4 °C/-20 °C

---

**Storage Comment:** Store at 2 - 8 °C for up to three months or (in aliquots) at -20 °C for longer.