

**TYW2 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9305b****Specification**

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**TYW2 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q53H54](#)**TYW2 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 55039**Other Names**

tRNA wybutosine-synthesizing protein 2 homolog, tRNA-yW-synthesizing protein 2, tRNA(Phe) (4-demethylwyosine(37)-C(7)) aminocarboxypropyltransferase, TRMT12, TRM12, TYW2

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP9305b](/products/AP9305b) was selected from the C-term region of human TYW2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**TYW2 Antibody (C-term) Blocking Peptide - Protein Information****Name** TRMT12**Synonyms** TRM12, TYW2**Function**

S-adenosyl-L-methionine-dependent transferase that acts as a component of the wybutosine biosynthesis pathway. Wybutosine is a hyper modified guanosine with a tricyclic base found at the 3'-position adjacent to the anticodon of eukaryotic phenylalanine tRNA. Catalyzes the transfer of the alpha-amino-alpha-carboxypropyl (acp) group from S-adenosyl-L-methionine to the C-7 position of 4-demethylwyosine (imG-14) to produce wybutosine-86.

**TYW2 Antibody (C-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

#### **TYW2 Antibody (C-term) Blocking Peptide - Images**

#### **TYW2 Antibody (C-term) Blocking Peptide - Background**

TYW2 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. TRMT12 is the human homolog of a yeast gene essential for yW synthesis.

#### **TYW2 Antibody (C-term) Blocking Peptide - References**

Rodriguez,V., et.al., Genes Chromosomes Cancer 46 (7), 694-707 (2007)Noma,A. et.al., Nucleic Acids Symp Ser (Oxf) 50, 65-66 (2006)Kalhor,H.R., et.al., Biochem. Biophys. Res. Commun. 334 (2), 433-440 (2005)