

Datasheet for ABIN6991541
anti-TRMT12 antibody (N-Term)



[Go to Product page](#)

Overview

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|----------------------|---|
| Quantity: | 0.1 mg |
| Target: | TRMT12 |
| Binding Specificity: | N-Term |
| Reactivity: | Human, Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Application: | ELISA, Western Blotting (WB), Immunocytochemistry (ICC) |

Product Details

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| 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

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|-------------------|--|
| Target: | TRMT12 |
| Alternative Name: | TYW2 (TRMT12 Products) |
| 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 |

Target Details

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 µg/mL. Antibody can also be used for immunocytochemistry starting at 10 µg/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.