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TYW3 Antibody
Catalog # ASC11335

Specification

TYW3 Antibody - Product Information

Application	**WB**
Primary Accession	Q6IPR3
Other Accession	Q6IPR3, 42734381
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**TYW3 antibody can be used for detection of TYW3 by Western blot at 1 µg/mL.**

TYW3 Antibody - Additional Information

Gene ID **127253**

Target/Specificity
TYW3; TYW3 antibody is predicted to not cross-react with other TYW protein family members. At least two isoforms of TYW3 are known to exist; this antibody will detect both isoforms.

Reconstitution & Storage
TYW3 antibody can be stored at 4 ℃, 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.

Precautions
TYW3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TYW3 Antibody - Protein Information

Name TYW3

Synonyms C1orf171

Function
Probable S-adenosyl-L-methionine-dependent methyltransferase 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 (By similarity).

TYW3 Antibody - Protocols

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

- Western Blot

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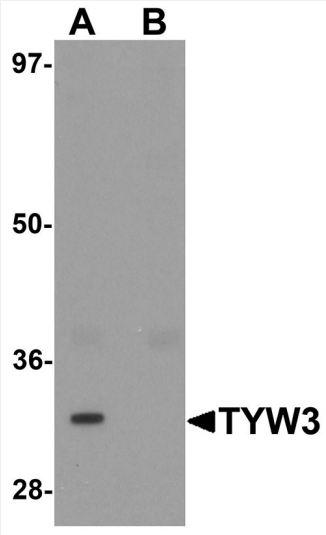
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TYW3 Antibody - Images



Western blot analysis of TYW3 in A549 cell lysate with TYW3 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.

TYW3 Antibody - Background

TYW3 Antibody: TYW3 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. TYW3 is involved in a multistep enzymatic reaction that stabilizes codon-anticodon base-pairing during the ribosomal decoding process, thereby ensuring correct translation.

TYW3 Antibody - References

Noma A and Suzuki T. Ribonucleome analysis identified enzyme genes responsible for wybutosine synthesis. Nucleic Acids Symp. Ser. (Oxf) 2006; 65-6.
Noma A, Kirino Y, Ikeuchi Y, et al. Biosynthesis of wybutosine, a hyper-modified nucleoside in eukaryotic phenylalanine tRNA. EMBO J. 2006; 25:2142-54