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Datasheet for ABIN6991540 **anti-TYW1 antibody (C-Term)**

Overview

Quantity:	0.1 mg
Target:	TYW1
Binding Specificity:	AA 520-570, C-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TYW1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	TYW1 antibody was raised against a 19 amino acid synthetic peptide near the carboxy terminus of human TYW1. The immunogen is located within amino acids 520 - 570 of TYW1.
Isotype:	IgG
Specificity:	TYW1 antibody is predicted to not cross-react with other TYW protein family members. At least three isoforms of TYW1 are known to exist, this antibody will only detect the two larger isoforms.
Purification:	TYW1 Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	TYW1
Alternative Name:	TYW1 (TYW1 Products)

Target Details

Background: TYW1 Antibody: TYW1, also known as TYW1A, RSAFD1 or YPL207W, is a 732 amino acid protein containing one flavodoxin-like domain 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. TYW1 is involved in a multistep enzymatic reaction that stabilizes codon-anticodon base-pairing during the ribosomal decoding process, thereby ensuring correct translation. TYW1 binds to one 4Fe-4S cluster and is located on human chromosome 7. Defects in some of the genes on chromosome 7 have been linked to Osteogenesis imperfecta, Williams-Beuren syndrome, Lissencephaly, Citrullinemia and Shwachman-Diamond syndrome, suggesting that TYW1 may play a role in these conditions

Gene ID: 55253

NCBI Accession: [NP_060734](#)

UniProt: [Q9NV66](#)

Application Details

Application Notes: TYW1 antibody can be used for detection of TYW1 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL.

Antibody validated: Western Blot in human samples and Immunohistochemistry in human samples. All other applications and species not yet tested.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: TYW1 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: TYW1 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.