## antibodies - online.com







## anti-TYW1 antibody (C-Term)



Image



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Overview	
Quantity:	0.1 mg
Target:	TYW1
Binding Specificity:	C-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TYW1 antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)
Product Details	
Immunogen:	19 amino acid peptide near the carboxy terminus of human TYW1

Product Details	
Immunogen:	19 amino acid peptide near the carboxy terminus of human TYW1
Specificity:	This antibody detects TYW1 / RSAFD1 at C-term. 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.
Cross-Reactivity (Details):	Species reactivity (tested):Human, rat
Purification:	Affinity chromatography purified via peptide column
Target Details	

Target:	TYW1	
Alternative Name:	TYW1 / RSAFD1 (TYW1 Products)	

## **Target Details**

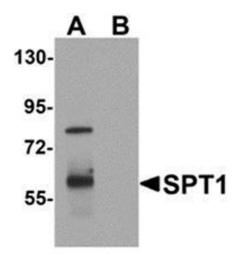
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rarget Details		
Background:	TYW1, also known as TYW1A, RSAFD1 or YPL207W, is a 732 amino acid protein containing one flavodoxin-like domain that participates in the wybutosine-tRNA (Phe) biosynthesis pathway. Wybutosine (yW) is a hypermodified guanosine 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. Synonyms: Radical S-adenosyl methionine and flavodoxin domain-containing protein 1, tRNA wybutosine-synthesizing protein 1 homolog, tRNA-yW-synthesizing protein	
Gene ID:	55253	
NCBI Accession:	NP_060734	
UniProt:	Q9NV66	
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.	

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

4 °C/-20 °C



## **Western Blotting**

**Image 1.** Western blot analysis of TYW1 in human lung tissue lysate with TYW1 antibody at 1  $\mu$ g/ml.