

TYW1 Antibody

Subcategory: Rabbit Polyclonal Antibody

Cat. No.: 254478

Unit: 0.1 mg

Description:

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

Isotype: Rabbit Ig

Applications: E, WB

Species Reactivity: H, R

Format: Each vial contains 0.1 ml IgG in PBS pH 7.4 with 0.02% sodium azide. Antibody was purified by immunogen affinity chromatography.

Alternate Names: TYW1; Radical S-adenosyl methionine and flavodoxin domain-containing protein 1; RSAFD1; tRNA wybutosine-synthesizing protein 1 homolog; TYW1A; YPL207W

Accession No.: NP_060734

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within human TYW1.

Application Notes: E: 1:500-1:1,000; WB: 1:100-1:500

Storage: Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.