

TYW4 Antibody

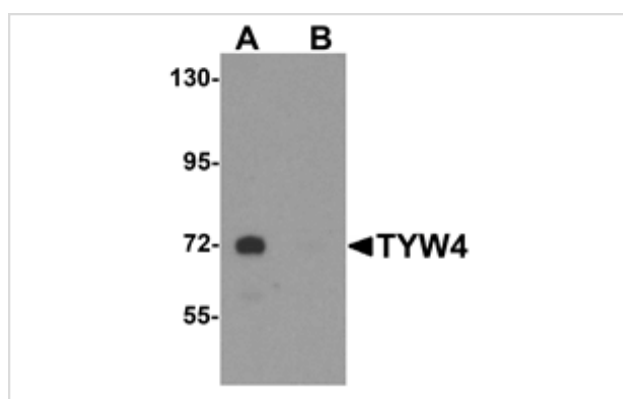
Catalog No: #25317

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Description

Product Name	TYW4 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB
Species Reactivity	Hu Ms Rt
Specificity	TYW4 antibody is predicted to not cross-react with other TYW protein family members. At least two isoforms of TYW4 are known to exist; this antibody will detect only the long isoform.
Immunogen Type	Peptide
Immunogen Description	Raised against a 16 amino acid peptide near the amino terminus of human TYW4.
Target Name	TYW4
Other Names	Radical S-adenosyl methionine and flavodoxin domain-containing protein 4, tRNA wybutosine-synthesizing protein 4 homolog, leucine carboxy methyltransferase 2, LCMT2
Accession No.	Swiss-Prot:O60294Gene ID:9836
Uniprot	O60294
GeneID	9836;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°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.

Images



Western blot analysis of TYW4 in rat brain tissue lysate with TYW4 antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.

Background

TYW4 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. TYW4 is involved in a multistep enzymatic reaction that stabilizes codon-anticodon base-pairing during the ribosomal decoding process, thereby ensuring correct translation.

Note: This product is for in vitro research use only