

## Anti-TYW4 LCMT2 Antibody

Catalog Number: A14797

### About LCMT2

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.

### Overview

Product Name	Anti-TYW4 LCMT2 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-TYW4 LCMT2 Antibody (Catalog # A14797). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	TYW4 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	TYW4 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	O60294

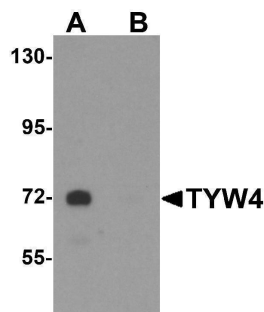
### Technical Details

Immunogen	TYW4 antibody was raised against a 16 amino acid synthetic peptide near the amino terminus of human TYW4. The immunogen is located within the first 50 amino acids of TYW4.
Predicted Reactive Species	Bovine
Cross Reactivity	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.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	TYW4 Antibody is affinity chromatography purified via peptide column.

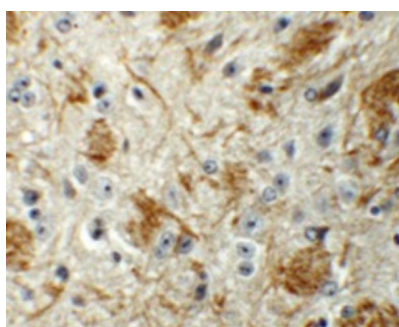
Suggested Dilutions

TYW4 antibody can be used for detection of TYW4 by Western blot at 1 ug/mL. Antibody can also be used for immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in rat samples; Immunohistochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

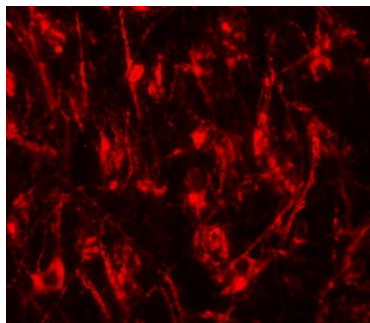
## Anti-TYW4 LCMT2 Antibody (A14797) Images



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.



Immunohistochemistry of TYW4 in mouse brain tissue with TYW4 antibody at 5 ug/mL.



Immunofluorescence of TYW1 in mouse brain tissue with TYW1 antibody at 20 ug/mL.

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