

NB100-66367

Tryptophan hydroxylase 2 [p Ser19] Antibody

Unit Size

0.05 ml

Concentration

Please see the vial label for concentration.

Storage

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

Applications

WB

Species

Mouse, Rat, Bovine, Zebrafish

Host

Rabbit

Clonality

Polyclonal

Purity

Affinity purified

Preservative

0.09% Sodium Azide

Specificity/Sensitivity

NB100-66367 specifically recognizes the 55kDa Tryptophan Hydroxylase 2 (TPH2) protein, when phosphorylated at Ser19. Tryptophan Hydroxylase (TPH) is a rate-limiting enzyme which catalyses the 5-hydroxylation of tryptophan, to form the amino acid 5-hydroxytryptophan (5-HTP), in the first stage of the biosynthesis of the neurotransmitter serotonin (5-hydroxytryptamine/5HT). Mammalian TPH is encoded by two genes: TPH1 expressed in peripheral tissues e.g. skin and gut, and TPH2 primarily expressed in the brain. Studies have demonstrated the regulation/enhancement of TPH activity through phosphorylation by cAMP-dependent protein kinase (PKA) and Ca²⁺/calmodulin kinase II (CaMKII), the latter of which phosphorylates a Ser19 site within the regulatory domain of TPH2.

Immunogen

Synthetic phosphopeptide corresponding to an amino acid sequence within TPH2, which includes phosphorylated Ser19.

Recommended Dilutions

Western Blot 1:1000

Buffer

10mM HEPES pH7.5

Uses

Western Blot detects a band of approximately 55kDa on recombinant TPH2 incubated in the presence of CAMKII.

Images

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Limitations: This product is for research use only and is not approved for use in humans or in clinical diagnosis. Products are guaranteed for six months from the date of receipt except for peptides and proteins which are guaranteed for 3 months. **For more information on our guarantee, please visit www.novusbio.com/guarantee.**

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