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EB11012 - Goat Anti-Tph2 (mouse) Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: Tph2, tryptophan hydroxylase 2, AU043594, MGC159133, Ntph, OTTMUSP00000022885, neuronal tryptophan hydroxylase, tryptophan 5-hydroxylase 2, tryptophan 5-monooxygenase 2, AU043594, MGC159133, neuronal tryptophan hydroxylase, Ntph, OTTMUSP00000022885, tryptophan 5-hydroxylase 2, tryptophan 5-monooxygenase 2, tryptophan hydroxylase 2, Tph2
Official Symbol: Tph2
Accession Number(s): NP_775567.2
Non-Human GeneID(s): 216343 (mouse)

Immunogen

Peptide with sequence C-SLTQNKAIKSEDK, from the internal region of the protein sequence according to NP_775567.2.

Please note the peptide is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:32000.
Western blot: Preliminary experiments gave an approx 85kDa band in Mouse fetal Brain lysates after 0.3µg/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the band we observe given the calculated size of 55.9kDa according to NP_775567.2. The 85kDa band was successfully blocked by incubation with the immunizing peptide.
IHC: In paraffin embedded Mouse Brain stem shows staining of Raphe nucleii serotonergic neurons consistent with observation by different antibodies. Recommended concentration, 0.5-2µg/ml.

Species Reactivity

Tested: Mouse
Expected from sequence similarity: Mouse

Specific References

Rahim RS, Meedeniya AC, Crane DI.
Central serotonergic neuron deficiency in a mouse model of the Zellweger syndrome.
Neuroscience. 2014 May 29.
PMID: 24881576

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Central serotonergic neuron deficiency in a mouse model of Zellweger syndrome.
Neuroscience. 2014 Aug 22;274:229-41.
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EB11012 (0.5µg/ml) staining of paraffin embedded Mouse Brain stem in sagittal (left) and coronal (right) sections of Raphe nuclei. Detection Alexa 594. Data obtained from Prof. D Crane, Griffith Univeristy, Brisbane, Australia