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diagnostic or therapeutic use.**

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-monoxygenase 2, AU043594, MGC159133, neuronal tryptophan hydroxylase, Ntph, OTTMUSP00000022885, tryptophan 5-hydroxylase 2, tryptophan 5-monoxygenase 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.

Immunofluorescence: In free-floating samples of Mouse Brain stem staining of Raphe nuclei serotonergic neurons can be seen, that is consistent with observation by different antibodies. Recommended concentration, 0.5-2µg/ml.

Species Reactivity

Tested: Mouse

Expected from sequence similarity: Mouse

Specific References

This antibody has been successfully used on Mouse:

Naika Prince, Lucia N Peralta Marzal, Anastasia Markidi, Sabbir Ahmed, Youri Adolfs, R Jeroen Pasterkamp, Himanshu Kumar, Guus Roeselers, Johan Garssen, Aletta D Kraneveld, Paula Perez-Pardo

Prebiotic diet normalizes aberrant immune and behavioral phenotypes in a mouse model of autism spectrum disorder

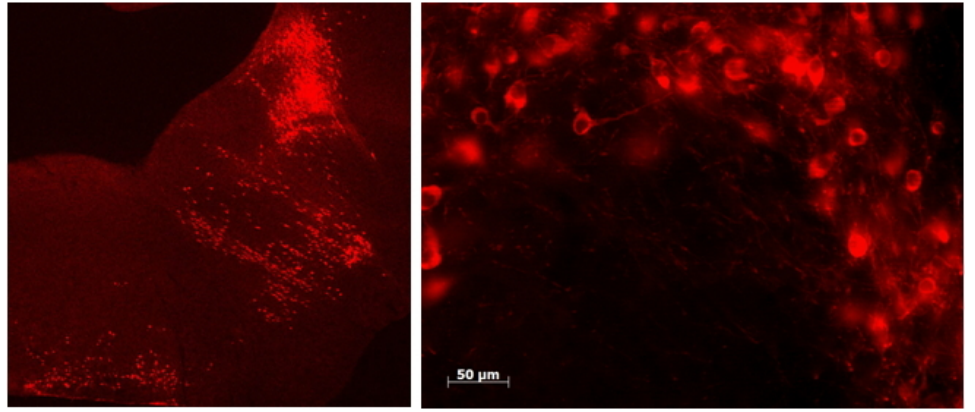
Acta Pharmacol Sin. 2024 Aug;45(8):1591-1603.

PMID: 38589690

This antibody has been successfully used in IF on Mouse:

Rahim RS, Meedeniya AC, Crane DI.

Central serotonergic neuron deficiency in a mouse model of Zellweger syndrome.
Neuroscience. 2014 Aug 22;274:229-41.
PMID: 24881576



EB11012 (0.5µg/ml) staining of 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