

Datasheet: 9260-2505

BATCH NUMBER 152400

Description:	SHEEP ANTI RABBIT TRYPTOPHAN HYDROXYLASE
Specificity:	TRYPTOPHAN HYDROXYLASE
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	25 µl

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Western Blotting	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

Target Species

Rabbit

Species Cross Reactivity

Reacts with: Rat, Human

Based on sequence similarity, is expected to react with: Mammals

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified Ig - liquid

Preparation

Purified Ig prepared by affinity chromatography

Buffer Solution

HEPES buffered saline

Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 50% Glycerol 0.01% Bovine Serum Albumin.
Immunogen	Recombinant rabbit tryptophan hydroxylase, isolated as inclusion bodies from <i>E. coli</i> and purified by preparative SDS-PAGE.
External Database Links	UniProt: P17290 Related reagents
Synonyms	TPH
RRID	AB_620477
Specificity	Sheep anti Rabbit tryptophan hydroxylase antibody recognizes tryptophan hydroxylase, also known as Tryptophan 5-hydroxylase 1 or Tryptophan 5-monoxygenase 1. Tryptophan hydroxylase is a 444 amino acid ~55 kDa enzyme involved in the synthesis of the neurotransmitter serotonin.
Immunohistology	9260-2505 has been used for immunohistochemistry on formaldehyde fixed tissue, it is useful for cell body but not fiber staining
References	<ol style="list-style-type: none"> Lowry, C.A. <i>et al.</i> (2000) Corticotropin-releasing factor increases <i>in vitro</i> firing rates of serotonergic neurons in the rat dorsal raphe nucleus: evidence for activation of a topographically organized mesolimbocortical serotonergic system. J Neurosci. 20 (20): 7728-36. Federici, L.M. <i>et al.</i> (2016) Hypothalamic orexin's role in exacerbated cutaneous vasodilation responses to an angiogenic stimulus in a surgical menopause model. Psychoneuroendocrinology. 65: 127-37. Johnson, P.L. <i>et al.</i> (2005) Acute hypercarbic gas exposure reveals functionally distinct subpopulations of serotonergic neurons in rats. J Psychopharmacol. 19 (4): 327-41. Sajdyk, T.J. <i>et al.</i> (2008) Neuropeptide Y in the amygdala induces long-term resilience to stress-induced reductions in social responses but not hypothalamic-adrenal-pituitary axis activity or hyperthermia. J Neurosci. 28 (4): 893-903. Johnson, P. <i>et al.</i> (2008) Disruption of GABAergic tone in the dorsomedial hypothalamus attenuates responses in a subset of serotonergic neurons in the dorsal raphe nucleus following lactate-induced panic. J Psychopharmacol. 22 (6): 642-52. Yu B <i>et al.</i> (2015) Mechanisms Underlying Footshock and Psychological Stress-Induced Abrupt Awakening From Posttraumatic "Nightmares". Int J Neuropsychopharmacol. Nov 20. pii: pyv113. [Epub ahead of print] Abrams, J.K. <i>et al.</i> (2005) Serotonergic systems associated with arousal and vigilance behaviors following administration of anxiogenic drugs. Neuroscience. 133 (4): 983-97. Staub, D.R. <i>et al.</i> (2005) Urocortin 2 increases c-Fos expression in topographically organized subpopulations of serotonergic neurons in the rat dorsal raphe nucleus. Brain Res. 1044 (2): 176-89. Cui, S.Y. <i>et al.</i> (2011) Diltiazem potentiates pentobarbital-induced hypnosis via 5-HT1A and 5-HT2A/2C receptors: role for dorsal raphe nucleus. Pharmacol Biochem Behav. 99

[\(4\): 566-72.](#)

10. Bouwknecht, J.A. *et al.* (2007) Differential effects of exposure to low-light or high-light open-field on anxiety-related behaviors: relationship to c-Fos expression in serotonergic and non-serotonergic neurons in the dorsal raphe nucleus. [Brain Res Bull. 72 \(1\): 32-43.](#)

11. Gardner, K.L. *et al.* (2005) Early life experience alters behavior during social defeat: focus on serotonergic systems. [Neuroscience. 136 \(1\): 181-91.](#)

12. Hale, M.W. *et al.* (2008) Exposure to an open-field arena increases c-Fos expression in a subpopulation of neurons in the dorsal raphe nucleus, including neurons projecting to the basolateral amygdaloid complex. [Neuroscience. 157 \(4\): 733-48.](#)

13. Spiga, F. *et al.* (2006) Injections of urocortin 1 into the basolateral amygdala induce anxiety-like behavior and c-Fos expression in brainstem serotonergic neurons. [Neuroscience. 138 \(4\): 1265-76.](#)

14. Rook, G. *et al.* (2003) Treatment of conditions of the central nervous system using mycobacteria [U.S. Patent Publication US20030170275 A1](#)

15. Staub, D.R. *et al.* (2006) Evidence supporting a role for corticotropin-releasing factor type 2 (CRF2) receptors in the regulation of subpopulations of serotonergic neurons. [Brain Res. 1070 \(1\): 77-89.](#)

16. Lowry, C.A. *et al.* (2007) Identification of an immune-responsive mesolimbocortical serotonergic system: potential role in regulation of emotional behavior. [Neuroscience. 146 \(2\): 756-72.](#)

Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
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Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10088 available at: https://www.bio-rad-antibodies.com/SDS/9260-2505 10088
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Rabbit Anti Sheep IgG (H/L) (5184-2304...) [Biotin](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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