

## Datasheet: 9260-2505

<b>Description:</b>	SHEEP ANTI RABBIT TRYPTOPHAN HYDROXYLASE
<b>Specificity:</b>	TRYPTOPHAN HYDROXYLASE
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Rabbit
<b>Species Cross Reactivity</b>	<p>Reacts with: Rat, Human</p> <p>Based on sequence similarity, is expected to react with: Mammals</p> <p><b>N.B.</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.</p>
<b>Product Form</b>	Purified Ig - liquid
<b>Preparation</b>	Purified Ig prepared by affinity chromatography
<b>Buffer Solution</b>	HEPES buffered saline
<b>Preservative</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )

<b>Stabilisers</b>	50% Glycerol 0.01% Bovine Serum Albumin
<b>Immunogen</b>	Recombinant rabbit tryptophan hydroxylase, isolated as inclusion bodies from <i>E. coli</i> and purified by preparative SDS-PAGE.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P17290</a> <a href="#">Related reagents</a>
<b>Synonyms</b>	TPH
<b>RRID</b>	AB_620477
<b>Specificity</b>	<b>Sheep anti Rabbit tryptophan hydroxylase antibody</b> 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.
<b>Immunohistology</b>	9260-2505 has been used for immunohistochemistry on formaldehyde fixed tissue, it is useful for cell body but not fiber staining
<b>References</b>	<ol style="list-style-type: none"> <li>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. <a href="#">J Neurosci. 20 (20): 7728-36.</a></li> <li>Federici, L.M. <i>et al.</i> (2016) Hypothalamic orexin's role in exacerbated cutaneous vasodilation responses to an anxiogenic stimulus in a surgical menopause model. <a href="#">Psychoneuroendocrinology. 65: 127-37.</a></li> <li>Johnson, P.L. <i>et al.</i> (2005) Acute hypercarbic gas exposure reveals functionally distinct subpopulations of serotonergic neurons in rats. <a href="#">J Psychopharmacol. 19 (4): 327-41.</a></li> <li>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. <a href="#">J Neurosci. 28 (4): 893-903.</a></li> <li>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. <a href="#">J Psychopharmacol. 22 (6): 642-52.</a></li> <li>Yu B <i>et al.</i> (2015) Mechanisms Underlying Footshock and Psychological Stress-Induced Abrupt Awakening From Posttraumatic "Nightmares". <a href="#">Int J Neuropsychopharmacol. Nov 20. pii: pyv113. [Epub ahead of print]</a></li> <li>Abrams, J.K. <i>et al.</i> (2005) Serotonergic systems associated with arousal and vigilance behaviors following administration of anxiogenic drugs. <a href="#">Neuroscience. 133 (4): 983-97.</a></li> <li>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. <a href="#">Brain Res. 1044 (2): 176-89.</a></li> <li>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. <a href="#">Pharmacol Biochem Behav. 99 (4): 566-72.</a></li> </ol>

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.](#)

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**Storage** This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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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: 10088: <https://www.bio-rad-antibodies.com/uploads/MSDS/10088.pdf>

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**Regulatory** For research purposes only

## Related Products

### Recommended Secondary Antibodies

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

Donkey Anti Sheep IgG (STAR88...) [DyLight®488](#), [HRP](#)

**North & South America** Tel: +1 800 265 7376

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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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