

Datasheet: 9260-2505

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| 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.

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

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| Stabilisers | 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-monooxygenase 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 anxiogenic 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> (2016) Mechanisms Underlying Footshock and Psychological Stress-Induced Abrupt Awakening From Posttraumatic "Nightmares". Int J Neuropsychopharmacol. 19 (4) :pyv113. 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. 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.](#)
15. 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 | <p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p> |
| Guarantee | 12 months from date of despatch |
| Health And Safety Information | <p>Material Safety Datasheet documentation #10088 available at: https://www.bio-rad-antibodies.com/SDS/9260-2505</p> <p>10088</p> |
| Regulatory | For research purposes only |

Related Products

Recommended Secondary Antibodies

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

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|----------------------------------|---|------------------|---|---------------|---|
| North & South America | Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com | Worldwide | Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com | Europe | Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com |
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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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