

Datasheet: 9260-2505

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.
Product Form	Purified Ig - liquid
Preparation	Purified Ig prepared by affinity chromatography
Buffer Solution	Phosphate 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
Specificity	Sheep anti Rabbit tryptophan hydroxylase antibody recognises 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 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> (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. Bouwknicht, J.A. <i>et al.</i> (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. Gardner, K.L. <i>et al.</i> (2005) Early life experience alters behavior during social defeat: focus on serotonergic systems. Neuroscience. 136 (1): 181-91. Hale, M.W. <i>et al.</i> (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. Spiga, F. <i>et al.</i> (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. Rook, G. <i>et al.</i> (2003) Treatment of conditions of the central nervous system using mycobacteria U.S. Patent Publication US20030170275 A1 Staub, D.R. <i>et al.</i> (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. Lowry, C.A. <i>et al.</i> (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.

Shelf Life	18 months from date of despatch.
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Health And Safety Information	Material Safety Datasheet documentation #10048 available at: 10048: https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf
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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](#)

Donkey Anti Sheep IgG (STAR88...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[FITC](#), [HRP](#)

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