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# PRODUCT DATA SHEET

#### ANTI-TRYPTOPHAN HYDROXYLASE ANTIBODY Product Name:

Product Code:	P60401-100	Host Species:	Sheep	(Polyclonal)
Pack Size:	100 μL	<i>M</i> r (kDa):	55	
			1.1	

Description: Tryptophan hydroxylase (TPH) catalyzes the first step in the biosynthesis of serotonin and melatonin (Martinez et al., 2001). Thus, expression of TPH can be used as an indicator of the localization of serotonin and melatonin in brain. In mammals, serotonin biosynthesis occurs predominantly in neurons which originate in the Raphe nuclei of the brain, and melatonin synthesis takes place within the pineal gland (Havcock et al., 2002). Although TPH catalyzes the same reaction within the Raphe nuclei and the pineal gland, TPH activity is rate-limiting for serotonin but not melatonin biosynthesis (Martinez et al., 2001).

Physical State:	Liquid; Buffer contents: 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per mL BSA and 50% glycerol
Storage/Stability:	Stable at -20 °C for at least 1 year. For long term storage -20 °C is recommended
Purification Method:	Prepared from sheep serum by affinity purification using a column to which the recombinant protein was coupled.
Shipping Conditions:	Domestic: Blue Ice International: Blue Ice or Dry Ice

**Immunogen:** Recombinant rabbit tryptophan hydroxylase, isolated as inclusion bodies from E. coli and purified by preparative SDS-PAGE.

Species Reactivity: The antibody has been directly tested for reactivity in Western blots with human and rat tissue. Based upon the relatively high degree of homology of tryptophan hydroxylase, the antibodies should cross-react with other mammalian species. Does not recognize TPH in rabbit tissues.

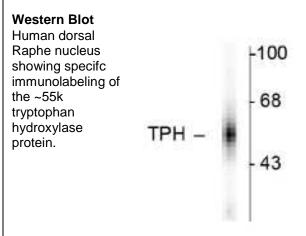
### **Recommended Antibody Dilutions:**

## WB, IHC: 1:1000

#### References:

1) Haycock JW et al. (2002) J Neurosci Methods 114:205-212.

2) Martinez A et al. (2001) Curr Med Chem 8:1077-1091.



Application Key: WB – Western Blot IF – Immunofluorescence IHC – Immunohistochemistry IP - Immunoprecipitation

P/N: 74070 Rev 02

Page 1 of 1

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