

DESCRIPTION

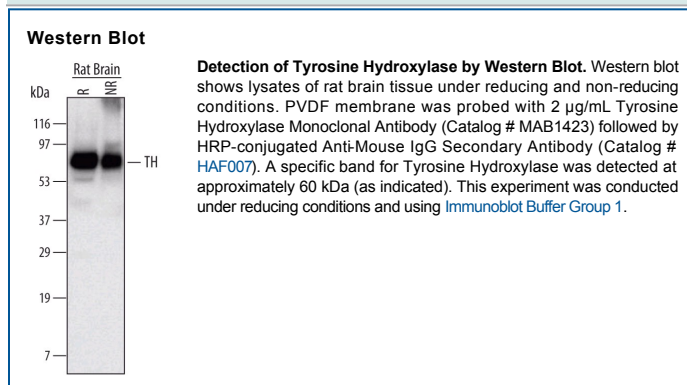
Specificity	Detects rodent, monkey, bovine, sheep, rabbit, guinea pig, and human tyrosine hydroxylase. It recognizes an epitope present in the N-terminal region (approximately amino acids 9-16) of tyrosine hydroxylase.
Source	Monoclonal Mouse IgG ₁ Clone # TH-2
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Rat tyrosine hydroxylase
Formulation	Supplied as a 0.2 µm filtered solution in PBS. See Certificate of Analysis for details.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	Perfusion fixed frozen sections of rat brain
Immunoprecipitation	Arita, D. <i>et al.</i> (2002) J. Cell Biochem. 87 :58.	

DATA



PREPARATION AND STORAGE

Shipping	The product is shipped with dry ice or equivalent. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	<ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C, as supplied. 1 month from date of receipt, 2 to 8 °C, as supplied.

BACKGROUND

Tyrosine hydroxylase is a tetrameric enzyme that catalyzes the hydroxylation of L-tyrosine to L-3,4-dihydroxyphenylalanine (L-dopa) in brain and adrenal medulla. This is the rate-limiting step in the biosynthesis of catecholamines, such as dopamine, norepinephrine, and epinephrine that serve as neurotransmitters and hormones (1).

References:

1. Nagatsu, T. *et al.* (1964) J. Biol. Chem. **239**:2910
2. Arita, D. *et al.* (2002) J. Cell Biochem. **87**:58.