

PRODUCT DATA SHEET**Product Name:** ANTI-PHOSPHO-Ser¹⁹ TYROSINE HYDROXYLASE ANTIBODY**Product Code:** P41101-100**Pack Size:** 100 µL

Description: Tyrosine hydroxylase (TH) is the rate-limiting enzyme in the synthesis of the catecholamines dopamine and norepinephrine. TH antibodies can therefore be used as markers for dopaminergic and noradrenergic neurons in a variety of applications including depression, schizophrenia, Parkinson's disease and drug abuse (Kish et al., 2001; Zhu et al., 2000; Zhu et al., 1999). TH antibodies can also be used to explore basic mechanisms of dopamine and norepinephrine signaling (Witkovsky et al., 2000; Salvatore et al., 2001; Dunkley et al., 2004).

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: Affinity purified.

Shipping Conditions: Domestic: Blue Ice
International: Blue Ice or Dry Ice

Host Species: Rabbit (Polyclonal)**Mr (kDa):** 60

Species Reactivity: Specific for the ~60k Tyrosine Hydroxylase protein phosphorylated at Ser¹⁹ in Western blots in a variety of mammalian and some non-mammalian species.

Recommended Antibody Dilutions:**WB, IF, IHC: 1:1000****References:**

- 1) Dunkley PR et al. (2004) *J Neurochem* 91:1025-1043.
- 2) Kish SJ et al. (2001) *Neuropsychopharmacology* 24:561-567.
- 3) Salvatore MF et al. (2001) *J Neurochem* 79:349-360.
- 4) Witkovsky P et al. (2000) *J Chem Neuroanat* 19:105-116.
- 5) Xu ZQ et al. (1998) *Neurosci* 82:727-738.
- 6) Zhu MY et al. (2000) *J Neurosci Meth* 99:37-44.
- 7) Zhu MY et al. (1999) *Biol Psychiatry* 46:1275-1286.

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

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P/N: 74073 Rev 02