



**MILLIPORE IHC SELECT RESEARCH®
PREDILUTED RABBIT ANTI-TYROSINE HYDROXYLASE
AFFINITY PURIFIED
POLYCLONAL ANTIBODY**

CATALOG NUMBER: IHCR1003-6 **QUANTITY:** 6 mL

LOT NUMBER:

DESCRIPTION: Tyrosine hydroxylase plays an important role in the physiology of adrenergic neurons. It is the first rate-limiting enzyme involved in the biosynthesis of the catecholamines Dopamine and Norepinephrine from tyrosine. TH is, therefore, a useful marker for dopaminergic and noradrenergic neurons. The enzymatic activity of TH requires ferrous ions as cofactors and is believed to be regulated by phosphorylation. At least four isoforms of human TH have been identified which results from alternative splicing.

SPECIFICITY: Tyrosine Hydroxylase

IMMUNOGEN: Denatured tyrosine hydroxylase from rat pheochromocytoma (denatured by sodium dodecyl sulfate).

APPLICATIONS: Antibody is prediluted and ready to use for Immunohistochemistry of formalin-fixed, paraffin-embedded tissues.

Pretreatment: Heat Induced Epitope Retrieval (HIER). Recommend Citrate Buffer, pH 6.0 (Cat. No. 21545) or EDTA, pH 8.0 (Cat. No. 21546). No signal was detected without Epitope retrieval.

Incubation: 30 minutes with IHC Select® Detection Kits.

Tyrosine Hydroxylase has been prediluted for use as the primary antibody with MILLIPORE's IHC Select® Detection Kits and Protocols (Catalog Nos. DAB050, DET-HP1000, APR050, and DET-APR1000), but other supplier's IHC detection systems may be used. For optimized protocol details, visit www.MILLIPORE.com and select the protocols link under Cat. No.IHCR1003-6.

SPECIES REACTIVITIES: Reacts with Human. Reactivity with other species has not been determined.

PRESENTATION: Liquid diluted in PBS, pH 7.2 with stabilizers, 0.2% Tween 20, and 0.1% ProClin 300 as preservative.

STORAGE/HANDLING: Maintain at 2-8°C. Refer to vial for expiration dating.

RELATED REFERENCES: Hollis, J. et al. (2005). Lipopolysaccharide has selective actions on sub-populations of catecholaminergic neurons involved in activation of the hypothalamic-pituitary-adrenal axis and inhibition of prolactin secretion. *J. Endocrinology* **184** : 393-406.

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Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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