RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Goat Anti-Tyrosine Hydroxylase

With HRP-conjugated Secondary Antibody

Catalog No.	Target Species	Accession Number
126-10004	Human	NP_954986.2

Target Protein

Principal Names: tyrosine 3-monooxygenase, dystonia 14, DYT5b, DYT14, TYH, HGNC:11782, tyrosine hydroxylase, TH
Official Symbol: TH
Accession Number(s): NP_954986.2; NP_000351.2; NP_954987.2
Human GeneID(s): 7054
Important Comments: This antibody is expected to recognize all three reported isoforms (as represented by NP_954986.2; NP_000351.2; NP_954987.2).

Immunogen

Peptide with sequence C-VQDELDTLAHAL, from the C Terminus of the protein sequence according to NP_954986.2; NP_000351.2; NP_954987.2.

Purification and Storage

Purified from goat serum by ammonium sulfate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:8000.
Western blot: Approx 55kDa band observed in Human Brain (Cerebral Cortex) lysates (calculated MW of 55.5kDa according to NP_000351.2). Recommended concentration: 2-4µg/ml.

Species Reactivity

Tested: Human
Expected from sequence similarity: Human, Rat, Dog

Background Reference

Voeller KK. Attention-deficit hyperactivity disorder (ADHD).
J Child Neurol. 2004 Oct;19(10):798-814. Review.
PMID: 15559895

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Secondary Antibody Applications

Immunoassay (ELISA, Western blotting): 1:5,000-1:10,000

Images

126-10004 (2µg/ml) staining of Human Cerebral Cortex lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.