

Datasheet for ABIN6658148

anti-Tyrosine Hydroxylase antibody



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1 Image

Overview

Quantity:	100 µL
Target:	Tyrosine Hydroxylase (TH)
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Tyrosine Hydroxylase antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Fluorescence Microscopy (FM)

Product Details

Purpose:	Tyrosine Hydroxylase Antibody
Immunogen:	Anti-Tyrosine Hydroxylase Antibody was produced by repeated immunizations with SDS-denatured, native rat tyrosine hydroxylase purified from pheochromocytoma.
Isotype:	IgG
Cross-Reactivity (Details):	Anti-Tyrosine Hydroxylase Antibody is directed against rat Tyrosine Hydroxylase protein.
Purification:	The antibody was affinity purified from monospecific antiserum by immunoaffinity purification.

Target Details

Target:	Tyrosine Hydroxylase (TH)
Alternative Name:	Tyrosine Hydroxylase (TH Products)
Background:	Synonyms: Tyrosine 3-monooxygenase, Tyrosine 3-hydroxylase, TH

Target Details

Background: Tyrosine Hydroxylase Antibody detects Tyrosine Hydroxylase protein. 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. TH antibodies can also be used to explore basic mechanisms of dopamine and norepinephrine signaling.

Gene Name: TH

Gene ID: 25085

NCBI Accession: [NP_036872](#)

UniProt: [P04177](#)

Pathways: [Dopaminergic Neurogenesis](#), [Response to Water Deprivation](#), [Sensory Perception of Sound](#), [Carbohydrate Homeostasis](#), [Feeding Behaviour](#)

Application Details

Application Notes: Immunohistochemistry_Dilution: 1:1000
IF_Microscopy_Dilution: 1:1000
Western_Blott_Dilution: 1:1000
Other: User optimized

Comment: Anti-Tyrosine Hydroxylase (Rabbit) antibody is tested for use in Western Blotting and IHC/ICC and suitable for IF. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 60 kDa in size corresponding to the tyrosine hydroxylase proteins in the appropriate cell lysate or extract.

Restrictions: For Research Use only

Handling

Format: Liquid

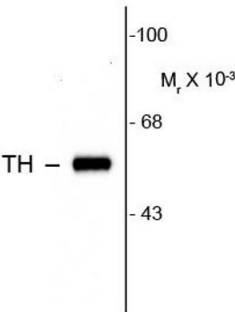
Buffer: Buffer: 0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer: 0.1 mg/mL Bovine Serum Albumin (BSA) - IgG and Protease free, 50 % (v/v) Glycerol

Storage: 4 °C, -20 °C

Storage Comment: Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.

Expiry Date: 12 months

Anti-Tyrosine Hydroxylase



Western of rat caudate lysate showing specific immunolabeling of the ~60k tyrosine hydroxylase protein.

Western Blotting

Image 1. Western blot of Tyrosine Hydroxylase Antibody
Western Blot of Rabbit anti-Tyrosine Hydroxylase antibody.
Lane 1: rat caudate lysate. Lane 2: none. Load: 10 µg per lane. Primary antibody: Tyrosine Hydroxylase antibody at 1:1,000 for overnight at 4°C. Secondary antibody: rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 60 kDa for Tyrosine Hydroxylase. Other band(s): none.