

Anti-Tyrosine Hydroxylase Antibody

Our Anti-Tyrosine Hydroxylase rabbit polyclonal primary antibody from PhosphoSolutions is produced in house.
Catalog # AN1597

Specification

Anti-Tyrosine Hydroxylase Antibody - Product Information

Application	WB, IHC
Primary Accession	P04177
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	55966

Anti-Tyrosine Hydroxylase Antibody - Additional Information

Gene ID **25085**

Other Names

Dystonia 14 antibody, DYT14 antibody, DYT5b antibody, EC 1.14.16.2 antibody, OTTHUMP00000011225 antibody, OTTHUMP00000011226 antibody, ple antibody, Protein Pale antibody, TH antibody, The antibody, TY3H_HUMAN antibody, TYH antibody, Tyrosine 3 hydroxylase antibody, Tyrosine 3 monooxygenase antibody, Tyrosine 3-hydroxylase antibody, Tyrosine 3-monoxygenase antibody, Tyrosine hydroxylase antibody

Target/Specificity

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).

Format

Antigen Affinity Purified from Pooled Serum

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Anti-Tyrosine Hydroxylase Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

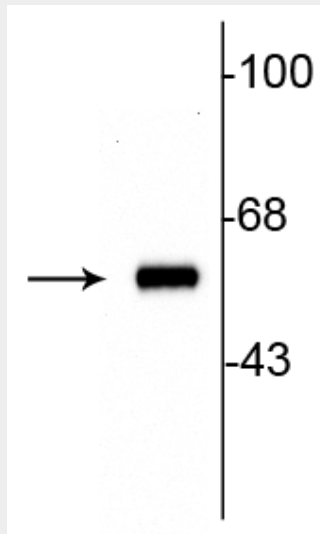
Blue Ice

Anti-Tyrosine Hydroxylase Antibody - Protocols

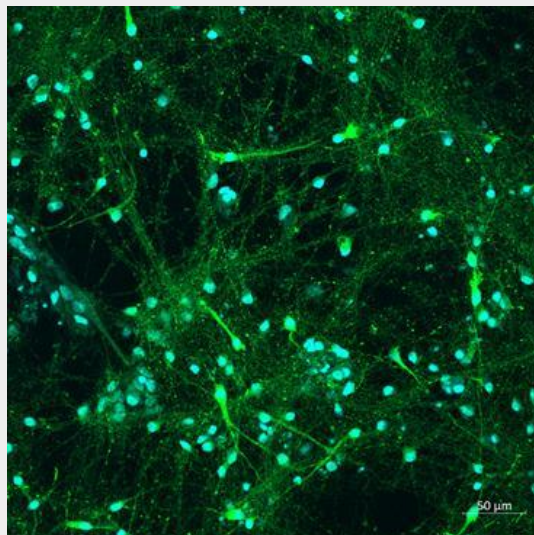
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

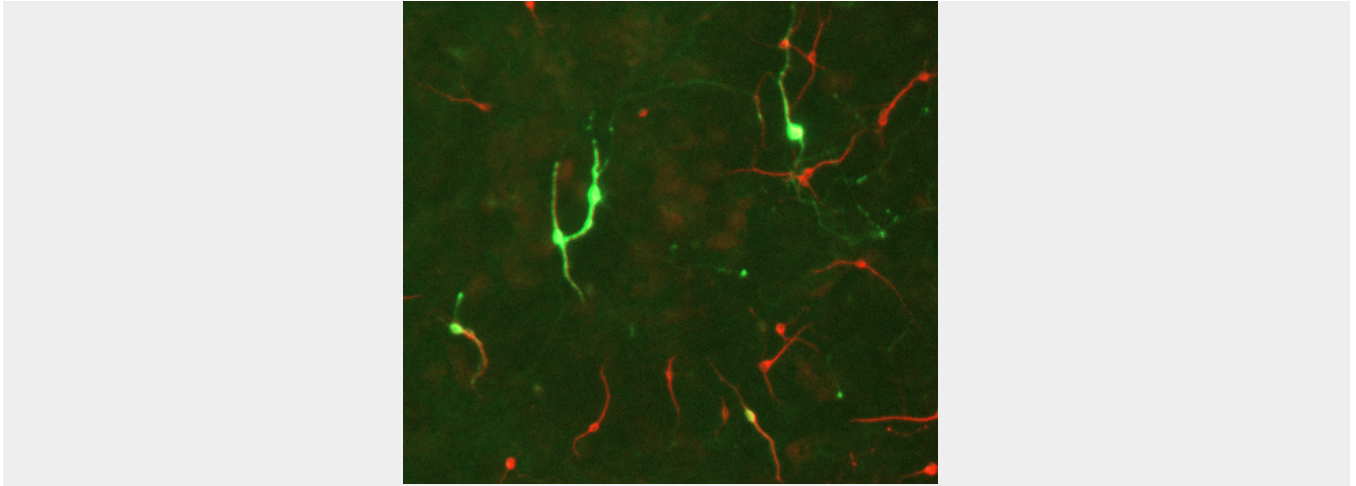
Anti-Tyrosine Hydroxylase Antibody - Images



Western blot of 10ug of rat striatal lysate showing specific immunolabeling of the ~60 kDa tyrosine hydroxylase protein.



Immunofluorescence of human iPSC-derived dopaminergic neurons labeled with anti-tyrosine hydroxylase (cat. 2025-THRAB, green, 1:500). The blue stain is DAPI. Before labeling, cells were fixed with 4% PFA and permeabilized with 0.1 to 0.3 % Triton X. This image is kindly provided by Aurelie de Rus Jacquet, Howard Hughes Medical Institute, Janelia Research Campus.



Immunostaining of E17 rat midbrain mixed neuronal cultures showing TH positive neurons (cat. 2025-THRAB, green, 1:500) and MAP2 (cat. 1100-MAP2, red, 1:2000). Before labeling, cells were fixed with 4% PFA in PBS and permeabilized for 1 hour 0.3 % Triton X. Image courtesy of Aurélie de Rus Jacquet, laboratory of Dr. Jean-Christophe Rochet, Purdue University.

Anti-Tyrosine Hydroxylase Antibody - Background

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).