

Anti-Tyrosine Hydroxylase antibody ab76442

★★★★★ [12 Abreviews](#) [127 References](#) [3 Images](#)

Overview

Product name	Anti-Tyrosine Hydroxylase antibody
Description	Chicken polyclonal to Tyrosine Hydroxylase
Host species	Chicken
Tested applications	Suitable for: IHC-P, IHC-FrFI Unsuitable for: WB
Species reactivity	Reacts with: Mouse
Immunogen	Two synthetic peptide/ keyhole limpet hemocyanin (KLH) conjugates. These synthetic peptides corresponded to different regions of the Tyrosine Hydroxylase gene product, but were shared between the human (P07101) and mouse (P24529) sequences.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.02% Sodium azide Constituent: 0.0268% PBS
Purity	Immunogen affinity purified
Purification notes	Two different affinity-purified anti-peptide antibodies were combined to make this product. After repeated injections of synthetic peptides into the hens, immune eggs were collected, and the IgY fractions were purified from the yolks. These IgY fractions were affinity-purified using a peptide column, and the concentrations of the eluates adjusted to 100 ug/ml. Finally, equal volumes of both affinity-purified anti-peptide antibody preparations were mixed, and the preparation was filter-sterilized. The concentrations of both antibodies were 100 ug/ml (based on Bradford assay

readings using bovine serum albumin as a standard), making the total antibody concentration 200 ug/ml.

Clonality Polyclonal
Isotype IgY

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab76442 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★★ (3)	1/1000 - 1/2000.
IHC-FrFI	★★★★★ (3)	1/1000.

Application notes Is unsuitable for WB.

Target

Function Plays an important role in the physiology of adrenergic neurons.

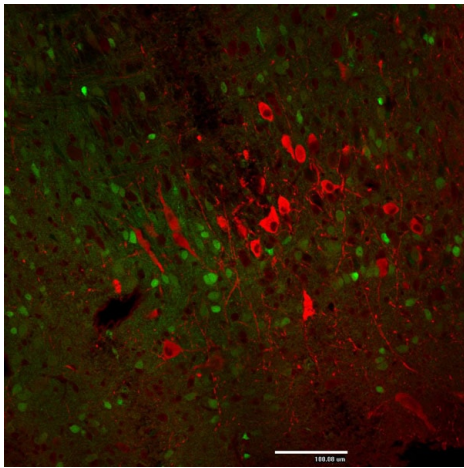
Tissue specificity Mainly expressed in the brain and adrenal glands.

Pathway Catecholamine biosynthesis; dopamine biosynthesis; dopamine from L-tyrosine: step 1/2.

Involvement in disease Defects in TH are the cause of dystonia DOPA-responsive autosomal recessive (ARDRD) [MIM:605407]; also known as autosomal recessive Segawa syndrome. ARDRD is a form of DOPA-responsive dystonia presenting in infancy or early childhood. Dystonia is defined by the presence of sustained involuntary muscle contractions, often leading to abnormal postures. Some cases of ARDRD present with parkinsonian symptoms in infancy. Unlike all other forms of dystonia, it is an eminently treatable condition, due to a favorable response to L-DOPA.
Note=May play a role in the pathogenesis of Parkinson disease (PD). A genome-wide copy number variation analysis has identified a 34 kilobase deletion over the TH gene in a PD patient but not in any controls.

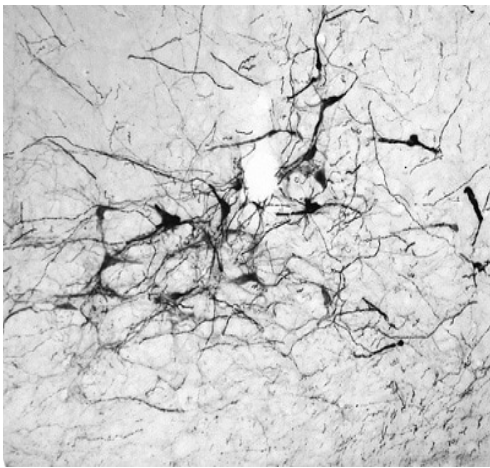
Sequence similarities Belongs to the bipterin-dependent aromatic amino acid hydroxylase family.

Images



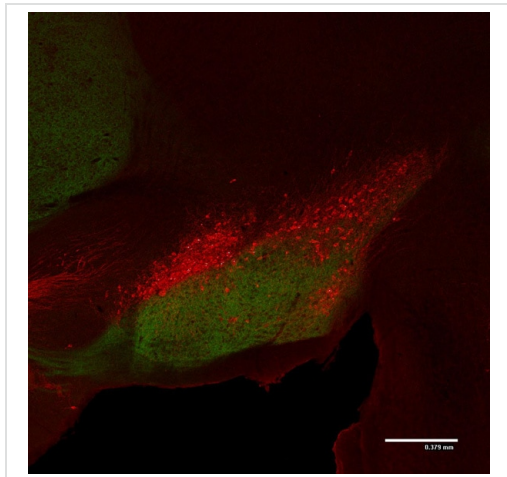
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Tyrosine Hydroxylase antibody (ab76442)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of adult mouse hippocampus tissue labelling Tyrosine Hydroxylase (red) with ab76442. Tissue was fixed with 4% paraformaldehyde. Green: GFP autofluorescence (under control of actin promoter).



Immunohistochemistry - Free Floating - Anti-Tyrosine Hydroxylase antibody (ab76442)

Immunohistochemistry (Free Floating) analysis of the rostral ventral lateral medulla in adult mouse brain labelling tyrosine hydroxylase with ab76442 at a dilution of 1/1000. Tissue was fixed with 10% formalin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of adult mouse hippocampus tissue labelling Tyrosine Hydroxylase (red) with ab76442. Tissue was fixed with 4% paraformaldehyde. Green: GFP autofluorescence (under control of actin promoter).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Tyrosine Hydroxylase antibody (ab76442)

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