

Product datasheet

Anti-Tyrosine Hydroxylase antibody ab137721

★ ★ ★ ★ ★ 1 Abreviews 2 References 7 Images

Overview

Product name	Anti-Tyrosine Hydroxylase antibody
Description	Rabbit polyclonal to Tyrosine Hydroxylase
Host species	Rabbit
Tested applications	Suitable for: IHC-FoFr, WB, ICC/IF, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment, corresponding to a region within amino acids 150-490 of Human Tyrosine Hydroxylase.
Positive control	NT2D1, PC-3, U87-MG, SK-N-SH, Mouse brain and PC-12 whole cell lysates; SK-N-SH cells; Human H661 xenograft and Rat hindlimb pad skin tissues.
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. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 78% PBS, 1% BSA, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab137721 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-FoFr		1/100 - 1/1000.
WB		1/500 - 1/3000. Predicted molecular weight: 58 kDa.
ICC/IF		1/100 - 1/1000.
IHC-P		1/100 - 1/1000. Perform heat mediated antigen retrieval using 10mM Citrate buffer (pH6.0) or Tris-EDTA buffer (pH8.0) before commencing with IHC staining protocol.

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.

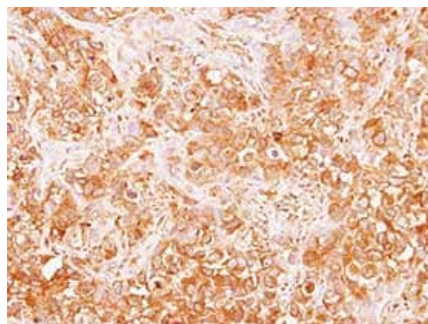
Involvement in disease

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

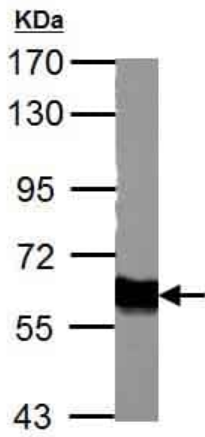
Belongs to the bipterin-dependent aromatic amino acid hydroxylase family.

Images



Immunohistochemical analysis of paraffin-embedded H661 xenograft labelling Tyrosine Hydroxylase with ab137721 at 1/100 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Tyrosine Hydroxylase antibody (ab137721)

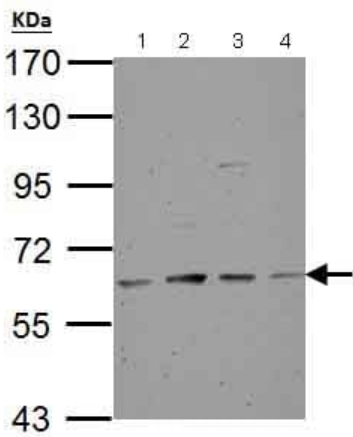


Western blot - Anti-Tyrosine Hydroxylase antibody (ab137721)

Anti-Tyrosine Hydroxylase antibody (ab137721) at 1/1000 dilution + PC-12 whole cell lysate at 30 µg

Predicted band size: 58 kDa

7.5% SDS-PAGE



Western blot - Anti-Tyrosine Hydroxylase antibody (ab137721)

All lanes : Anti-Tyrosine Hydroxylase antibody (ab137721) at 1/500 dilution

Lane 1 : NT2D1 whole cell lysate

Lane 2 : PC-3 whole cell lysate

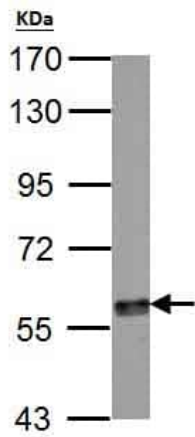
Lane 3 : U87-MG whole cell lysate

Lane 4 : SK-N-SH whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 58 kDa

7.5 % SDS-PAGE

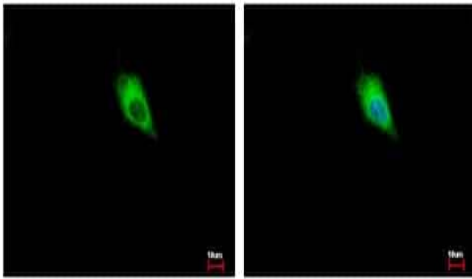


Western blot - Anti-Tyrosine Hydroxylase antibody (ab137721)

Anti-Tyrosine Hydroxylase antibody (ab137721) at 1/500 dilution +
 Mouse brain lysate at 50 µg

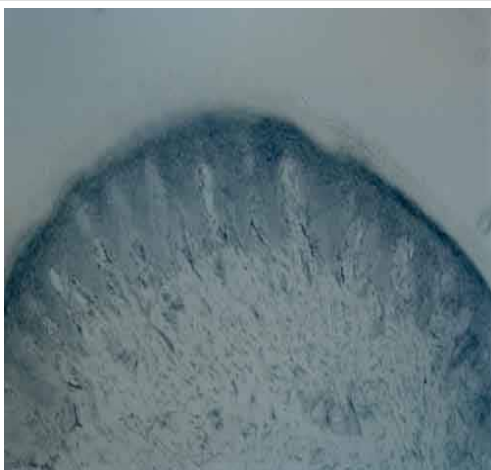
Predicted band size: 58 kDa

7.5 % SDS-PAGE



Immunocytochemistry/ Immunofluorescence - Anti-Tyrosine Hydroxylase antibody (ab137721)

Immunofluorescent analysis of methanol-fixed SK-N-SH cells labelling Tyrosine Hydroxylase with ab137721 at 1/500 dilution (left panel) and co-stained with Hoechst 33343 (right panel). SK-N-SH cells were fixed in -20°C 100% MeOH for 5 min.



Immunohistochemistry (PFA perfusion fixed frozen sections) - Anti-Tyrosine Hydroxylase antibody (ab137721)

Immunohistochemical analysis of paraformaldehyde-fixed frozen sections of Rat hindlimb pad skin tissue labelling Tyrosine Hydroxylase with ab137721 at 1/100 dilution.



Immunohistochemical analysis of paraformaldehyde-fixed frozen sections of Rat hindlimb pad skin tissue labelling Tyrosine Hydroxylase with ab137721 at 1/100 dilution.

Immunohistochemistry (PFA perfusion fixed frozen sections) - Anti-Tyrosine Hydroxylase antibody (ab137721)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors