

## Product datasheet

# Anti-Tyrosine Hydroxylase antibody ab112

★★★★★ 25 Abreviews 68 References 11 图像

### 概述

产品名称	Anti-Tyrosine Hydroxylase抗体
描述	兔多克隆抗体 to Tyrosine Hydroxylase
宿主	Rabbit
经测试应用	适用于: IHC-Fr, IHC-P, IHC-Fr/I, ICC/IF, IHC-FoFr, WB, IP, ICC
种属反应性	与反应: Mouse, Rat, Goat, Cat, Human, Pig 预测可用于: Mammal
免疫原	Full length SDS denatured protein (purified from pheochromocytoma) (Rat).
常规说明	ab112 can be used as a marker for dopaminergic and noradrenergic neurons.

### 性能

形式	Liquid
存放说明	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.
存储溶液	pH: 7.50 Constituents: 0.01% BSA, 0.87% Sodium chloride, 50% Glycerol, 0.238% HEPES
纯度	Protein A purified
克隆	多克隆
同种型	IgG

### 应用

Our [Abpromise guarantee](#) covers the use of **ab112** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
IHC-Fr	★★★★★	1/750 - 1/1500.
IHC-P	★★★★★	1/750.

应用	Ab评论	说明
IHC-FrFI		1/1000. PubMed: 222726
ICC/IF	★★★★★	1/1000.
IHC-FoFr	★★★★☆	Use at an assay dependent concentration. PubMed: 20357108
WB	★★★★★	1/200. Predicted molecular weight: 60 kDa.
IP		Use at an assay dependent concentration.
ICC	★★★★★	1/2000.

## 靶标

### 功能

Plays an important role in the physiology of adrenergic neurons.

### 组织特异性

Mainly expressed in the brain and adrenal glands.

### 通路

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

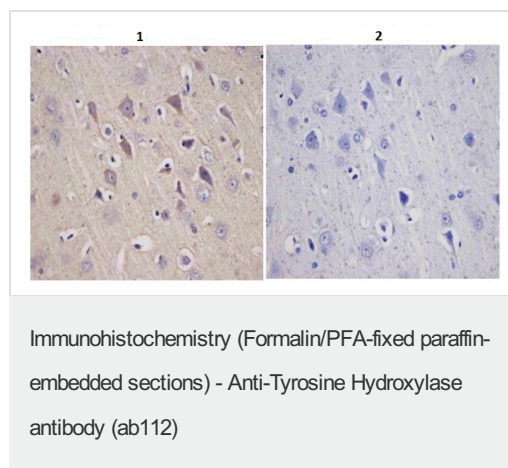
### 疾病相关

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.

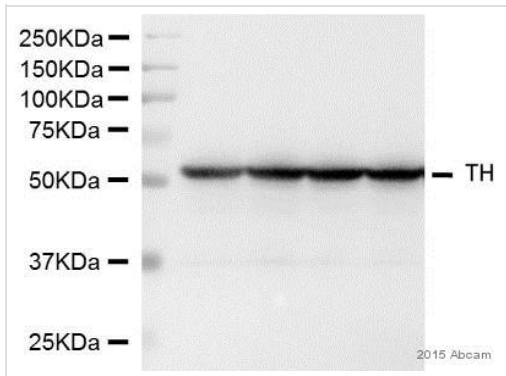
### 序列相似性

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

## 图片



Paraffin embedded sections of rat brain tissue were stained for Tyrosine Hydroxylase with ab112 at 1/5000 dilution in immunohistochemical analysis (panel 1). Panel 2 shows an image in which ab112 was replaced with a Rabbit IgG1 isotype control.



Western blot - Anti-Tyrosine Hydroxylase antibody (ab112)  
Image courtesy of an anonymous AbReview

**All lanes :** Anti-Tyrosine Hydroxylase antibody (ab112) at 1/200 dilution

**All lanes :** Mouse cell lysate (CATH.a neuron)

Lysates/proteins at 40 µg per lane.

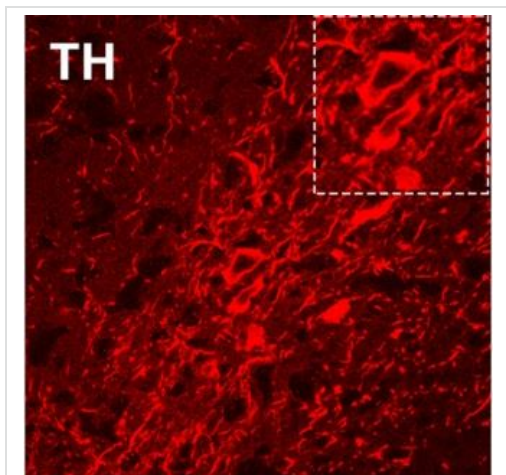
**Secondary**

**All lanes :** Goat Anti-Rabbit HRP

Developed using the ECL technique.

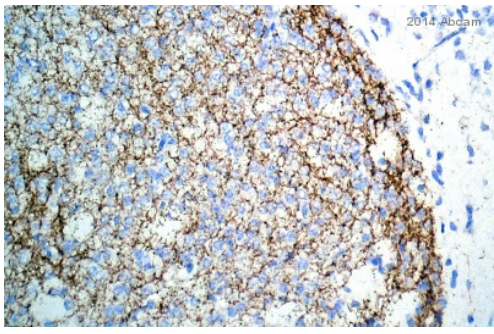
**Predicted band size:** 60 kDa

**Exposure time:** 50 seconds



Immunocytochemistry/ Immunofluorescence - Anti-Tyrosine Hydroxylase antibody (ab112)

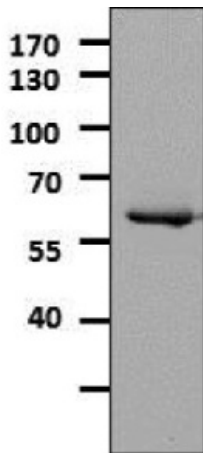
ab112 staining tyrosine hydroxylase in mouse brain tissue. Sections were permeabilized with 0.5% Triton X-100 in PBS at room temperature for 10 minutes. Samples were incubated with primary antibody (1:500) overnight at 4C.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Tyrosine Hydroxylase antibody (ab112)

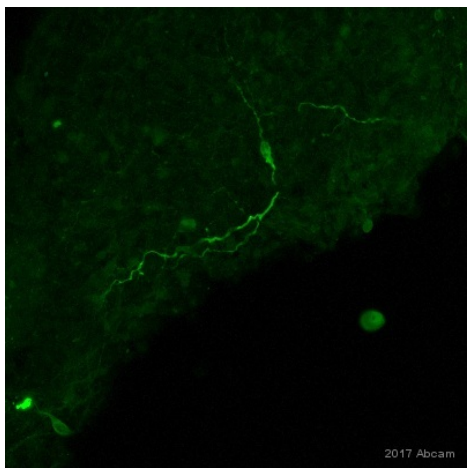
This image is courtesy of an Abreview submitted by Carl Hobbs

ab112 staining Tyrosine Hydroxylase in mouse brain tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 1% BSA for 10 minutes at 21°C; antigen retrieval was by heat mediation in citric acid. Samples were incubated with primary antibody (1/800 in TBS/BSA/azide) for 2 hours at 21°C. A Biotin-conjugated goat anti-rabbit IgG polyclonal (1/250) was used as the secondary antibody. The image of Caudate putamen shows characteristic nerve fibre positivity



Western blot - Anti-Tyrosine Hydroxylase antibody (ab112)

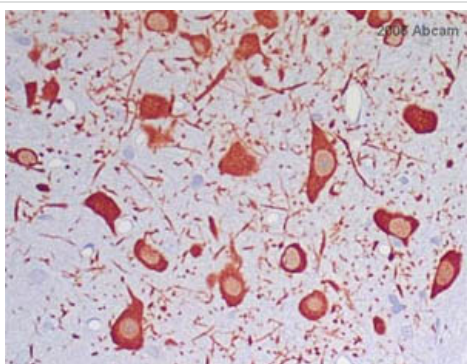
Western Blot: ab112 - WB analysis of Tyrosine Hydroxylase in PC12 cell whole lysate.



PFA-fixed, Triton X-100 permeabilized human neurons in cerebral organoid stained for Tyrosine Hydroxylase (green) using ab112 at 1/300 dilution in ICC/IF.

Immunocytochemistry/ Immunofluorescence - Anti-Tyrosine Hydroxylase antibody (ab112)

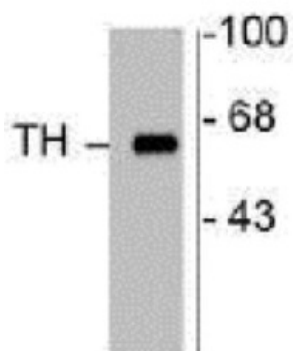
Image courtesy of an anonymous AbReview



ab112 at 1/800 staining rat dopaminergic neuronal tissue sections (araldite resin sections) by immunohistochemistry. The tissue was paraformaldehyde fixed and then an antigen retrieval step was carried out (heat mediated). A biotinylated goat anti-rabbit IgG ([ab6720](#)) was used as the secondary.

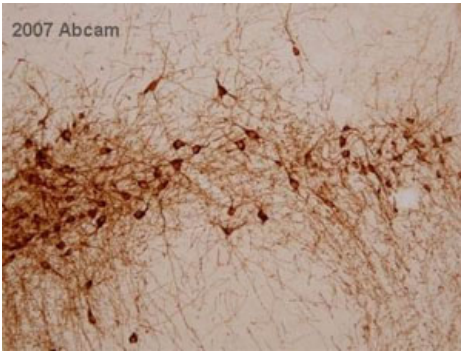
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Tyrosine Hydroxylase antibody (ab112)

This image is courtesy of an anonymous Abreview



Western Blot: ab112 - 10 ug of rat caudate lysate showing specific immunolabeling of the ~60k TH protein.

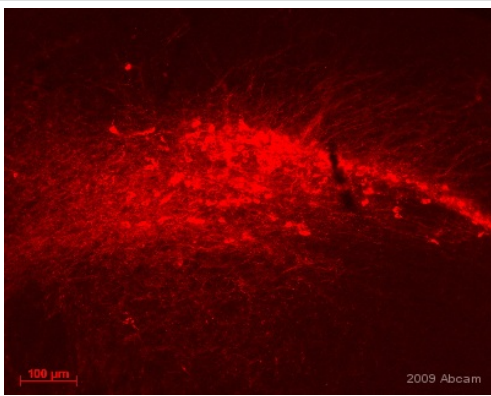
Western blot - Anti-Tyrosine Hydroxylase antibody (ab112)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Tyrosine Hydroxylase antibody (ab112)

This image is courtesy of an Abreview submitted by Dr Guillermo Estivill-Torres

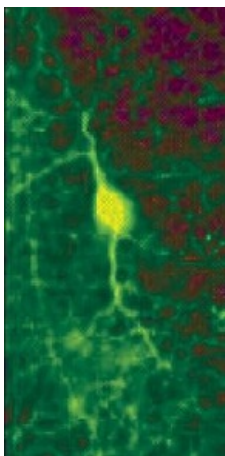
ab112 at 1/500 staining rat brain tissue ([ab29475](#)) sections by IHC-P. The tissue was paraformaldehyde fixed and blocked with serum prior to incubation with the antibody for 14 hours. A biotinylated swine anti-rabbit IgG was used as the secondary.



Immunohistochemistry (Frozen sections) - Anti-Tyrosine Hydroxylase antibody (ab112)

This image is courtesy of an Abreview submitted by Xiaobin Liu.

ab112, at 1/750, staining tyrosine hydroxylase in mouse brain tissue ([ab30151](#)) by Immunohistochemistry (Frozen sections). Sections were PFA fixed, permeabilized in 0.3 Triton X-100 prior to blocking in 5% serum for 1 hour at 22°C and then incubated with ab112, for 16 hours at 22°C. Alexa fluor® 555 goat polyclonal to rabbit Ig ([ab150078](#)), diluted 1/1000, was used as the secondary antibody.



Immunohistochemistry - Anti-Tyrosine Hydroxylase antibody (ab112)

Immunohistochemical staining of retina tissue using ab112.

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