

Product datasheet

Anti-Tyrosine Hydroxylase antibody ab113

★★★★★ 2 Abreviews 34 References 4 Images

Overview

Product name	Anti-Tyrosine Hydroxylase antibody
Description	Sheep polyclonal to Tyrosine Hydroxylase
Host species	Sheep
Tested applications	Suitable for: IHC-Fr/I, ICC/IF, IHC-Fr, WB, IP, IHC-FoFr
Species reactivity	Reacts with: Mouse, Rat Predicted to work with: Mammals 
Immunogen	Full length native protein (purified) corresponding to Rat Tyrosine Hydroxylase. SDS-denatured, native rat tyrosine hydroxylase purified from pheochromocytoma (rat) Database link: P04177
Positive control	Rat brain normal tissue lysate - total protein (ab29475) can be used as a positive control in WB.
General notes	ab113 can be used as a marker for dopaminergic and noradrenergic neurons.

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: 7.50 Constituents: PBS, 0.01% BSA, 0.87% Sodium chloride, 50% Glycerol, 0.238% HEPES
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab113** in the following tested applications.

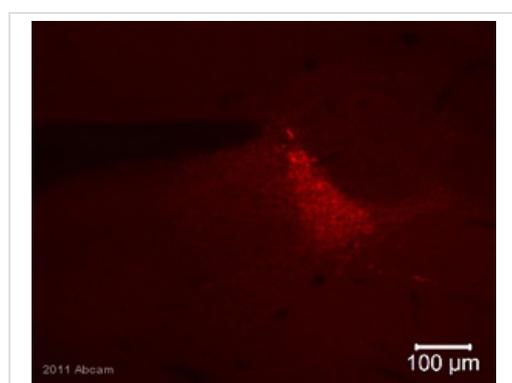
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-FrFI	★★★★★	1/1000 - 1/2000.
ICC/IF	★★★★★	1/1000.
IHC-Fr		1/1000.
WB		1/200. Predicted molecular weight: 60 kDa.
IP		Use at an assay dependent concentration.
IHC-FoFr		Use at an assay dependent concentration.

Target

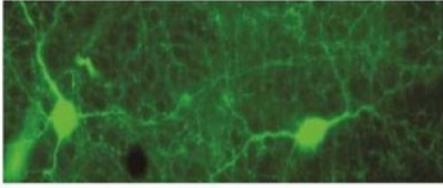
Function	Plays an important role in the physiology of adrenergic neurons.
Tissue specificity	Mainly expressed in the brain and adrenal glands.
Pathway	Catecholamine biosynthesis; dopamine biosynthesis; dopamine from L-tyrosine: step 1/2.
Involvement in disease	Defects in TH are the cause of dystonia 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



ab113 staining Tyrosine Hydroxylase in mouse brain tissue by Immunohistochemistry (Free Floating). Tissue was incubated with ab113 at a 1/1000 dilution for 48 hours at 4°C. The secondary used was a Dylight 594 conjugated donkey anti-sheep IgG (H+L) ([ab96941](#)) used at a 1/500 dilution.

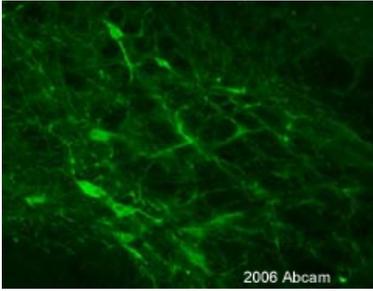
Immunohistochemistry - Free Floating - Anti-Tyrosine Hydroxylase antibody (ab113)
Image courtesy of Dr Xiaobin Liu by Abreview.



Immunocytochemistry/ Immunofluorescence - Anti-Tyrosine Hydroxylase antibody (ab113)

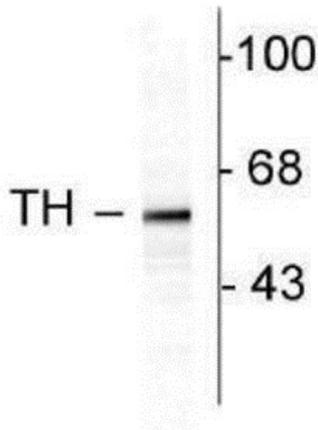
This image is courtesy of an Abreview submitted by Jim Deuchars.

Immunostaining of rabbit retina showing specific labeling of tyrosine hydroxylase in green.



Immunohistochemistry - Free Floating - Anti-Tyrosine Hydroxylase antibody (ab113)

ab113 at 1/2000 dilution staining rat brain cells ([ab29475](#)) by immunocytochemistry. The antibody was incubated with the tissue for 48 hours and then bound antibody was detected using a biotinylated donkey anti-sheep antibody. The image shows the staining of free-floating 50 micron brainstem sections, labelling A5 cell groups. The antibody also labels fine varicosities of axons.



Western blot - Anti-Tyrosine Hydroxylase antibody (ab113)

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

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