


Product datasheet

Anti-Tyrosine Hydroxylase antibody ab113

★★★★★ [2 Abreviews](#) [63 References](#) [1 Image](#)

Overview

Product name	Anti-Tyrosine Hydroxylase antibody
Description	Sheep polyclonal to Tyrosine Hydroxylase
Host species	Sheep
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Rat Predicted to work with: Mammals 
Immunogen	Full length native protein (purified) corresponding to Rat Tyrosine Hydroxylase aa 1 to the C-terminus. SDS-denatured, native rat tyrosine hydroxylase purified from pheochromocytoma (rat) Database link: P04177
General notes	ab113 can be used as a marker for dopaminergic and noradrenergic neurons. 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. 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

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

The Abpromise guarantee

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
WB		1/200. Predicted molecular weight: 60 kDa.

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.

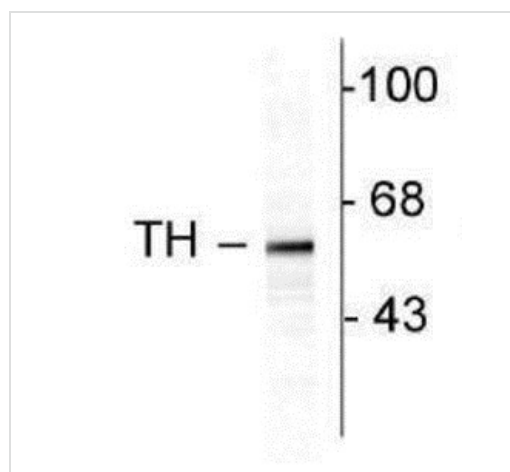
Involvement in disease

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



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

Western blot - Anti-Tyrosine Hydroxylase antibody (ab113)

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

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