abcam

Product datasheet

Anti-Tyrosine Hydroxylase antibody ab128249

1 References

Overview

Product name	Anti-Tyrosine Hydroxylase antibody
Description	Rabbit polyclonal to Tyrosine Hydroxylase
Host species	Rabbit
Tested applications	**Suitable for:** WB, ELISA
Species reactivity	**Reacts with:** Drosophila melanogaster
Immunogen	Synthetic peptide corresponding to an N terminal region of Drosophila melanogaster Tyrosine Hydroxylase (isoform Hypodermal) (Uniprot: P18459).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Constituents: 2% Sucrose, 1.21% Tris, 0.75% Glycine
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab128249** 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		1/500 - 1/2000. Predicted molecular weight: 58 kDa.
ELISA		Use at an assay dependent dilution.

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 biopterin-dependent aromatic amino acid hydroxylase family.