

Product datasheet

Anti-Tyrosine Hydroxylase antibody [TOH A1.1]
ab150659

4 References

Overview

Product name	Anti-Tyrosine Hydroxylase antibody [TOH A1.1]
Description	Mouse monoclonal [TOH A1.1] to Tyrosine Hydroxylase
Host species	Mouse
Specificity	The antibody recognizes the full length TOH
Tested applications	Suitable for: IHC-Fr, ICC/IF, Electron Microscopy
Species reactivity	Reacts with: Rat
Immunogen	Full length native Rat Tyrosine Hydroxylase protein (purified).
General notes	<p>ab150659 reacts with tyrosine hydroxylase immunoreactive sites in the known catecholaminergic neurons and and fibre systems of rat brain. It recognizes best the configuration of tyrosine hydroxylase in fixed tissues.</p> <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 and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Constituent: 99% Water
Purity	Protein G purified
Purification notes	Lyophilized protein G purified in PBS pH7.4
Primary antibody notes	ab150659 reacts with tyrosine hydroxylase immunoreactive sites in the known catecholaminergic neurons and and fibre systems of rat brain. It recognizes best the configuration of tyrosine

	hydroxylase in fixed tissues.
Clonality	Monoclonal
Clone number	TOH A1.1
Isotype	IgG1

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab150659 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-Fr		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
Electron Microscopy		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.

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