

Product datasheet

Anti-Tyrosine Hydroxylase antibody [EP1533Y] (HRP) ab193083

Recombinant RabMAb

[2 References](#) [2 Images](#)

Overview

Product name	Anti-Tyrosine Hydroxylase antibody [EP1533Y] (HRP)
Description	Rabbit monoclonal [EP1533Y] to Tyrosine Hydroxylase (HRP)
Host species	Rabbit
Conjugation	HRP
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat
Immunogen	Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within Human Tyrosine Hydroxylase aa 50-150 (phospho S70). The exact sequence is proprietary. Database link: P07101
Positive control	WB: Human adrenal gland lysate. IHC: Human cerebellum tissue.
General notes	Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

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. Stable for 12 months at -20°C. Store In the Dark.
Storage buffer	pH: 7.40 Preservative: 0.1% Proclin Constituents: 30% Glycerol, 1% BSA, PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP1533Y
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab193083** in the following tested applications.

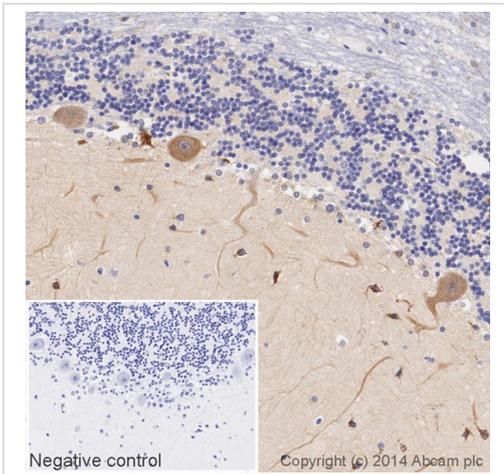
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. ab199507 - Rabbit monoclonal IgG (HRP), is suitable for use as an isotype control with this antibody.
WB		1/5000. Detects a band of approximately 59 kDa (predicted molecular weight: 59 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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Tyrosine Hydroxylase antibody [EP1533Y] (HRP) (ab193083)

IHC image of Tyrosine Hydroxylase staining in a section of formalin-fixed paraffin-embedded normal human cerebellum tissue, performed on a Leica BOND. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab193083 at 1/500 dilution, for 15 mins at room temperature. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset negative control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Western blot - Anti-Tyrosine Hydroxylase antibody [EP1533Y] (HRP) (ab193083)

Anti-Tyrosine Hydroxylase antibody [EP1533Y] (HRP) (ab193083) at 1/5000 dilution + Human adrenal normal tissue lysate - total protein (ab29249) at 10 µg

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 59 kDa

Observed band size: 59 kDa

Exposure time: 8 seconds

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab193083 overnight at 4°C. Antibody binding was visualised using ECL development solution ab133406.

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