

Product datasheet

Anti-Tryptophan Hydroxylase/TPH antibody [EP1311Y] ab52954

Recombinant RabMAb

★★★★★ **4 Abreviews** **24 References** [5 Images](#)

Overview

Product name	Anti-Tryptophan Hydroxylase/TPH antibody [EP1311Y]
Description	Rabbit monoclonal [EP1311Y] to Tryptophan Hydroxylase/TPH
Host species	Rabbit
Specificity	The mouse recommendation is based on the WB results. We do not guarantee IHC-P for mouse
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human small intestine and pituitary tissue lysate. Mouse brain tissue lysate. Recombinant full length mouse Tph1 protein with C-terminal MYC/DDK tag. N-His tagged human Tryptophan Hydroxylase/TPH (aa 105 to 420) recombinant protein
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal

Clone number EP1311Y

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab52954 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. Detects a band of approximately 51 kDa (predicted molecular weight: 51 kDa).
IHC-P	★☆☆☆☆ (2)	1/2000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. The mouse recommendation is based on the WB results. We do not guarantee IHC-P for mouse. For the unpurified format use at 1/50 dilution

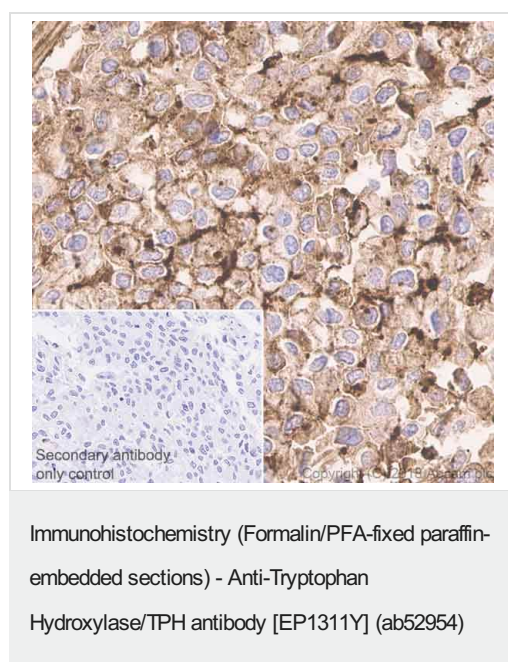
Target

Tissue specificity Isoform 2 seems to be less widely expressed than isoform 1.

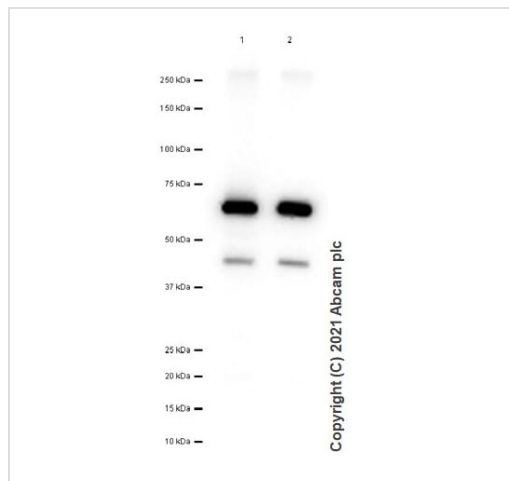
Pathway Aromatic compound metabolism; serotonin biosynthesis; serotonin from L-tryptophan: step 1/2.

Sequence similarities Belongs to the bipterin-dependent aromatic amino acid hydroxylase family.
Contains 1 ACT domain.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human bladder carcinoma tissue sections labeling Tryptophan Hydroxylase/TPH with Purified ab52954 at 1:2000 dilution (1.191 µg/mL). Heat mediated antigen retrieval was performed using Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0). Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use) secondary antibody was used. PBS instead of the primary antibody was used as the negative control.



Western blot - Anti-Tryptophan Hydroxylase/TPH antibody [EP1311Y] (ab52954)

Lane 1 : Anti-Tryptophan Hydroxylase/TPH antibody [EP1311Y]

(ab52954) at 1/1000 dilution

Lane 2 : Anti-DDDDK tag (Binds to FLAG® tag sequence)

antibody [EPR20018-251] ([ab205606](#)) at 1/1000 dilution

All lanes : Full-length Tph1 mouse recombinant protein with C-terminal MYC/DDK tag 10 ng

Secondary

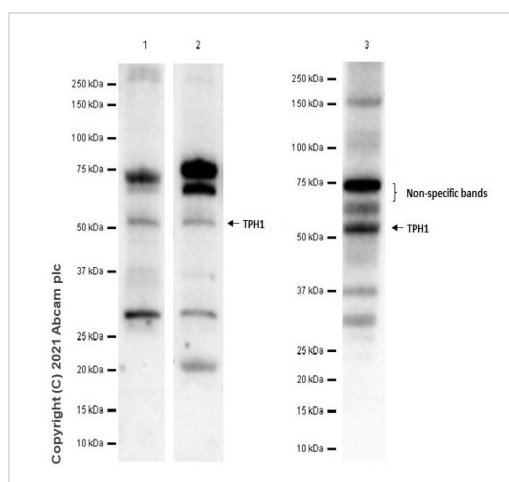
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 51 kDa

Additional bands at: 60 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 3 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-Tryptophan Hydroxylase/TPH antibody [EP1311Y] (ab52954)

All lanes : Anti-Tryptophan Hydroxylase/TPH antibody [EP1311Y]

(ab52954) at 1/1000 dilution

Lane 1 : Human small intestine tissue lysate

Lane 2 : Human pituitary tissue lysate

Lane 3 : Mouse brain tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

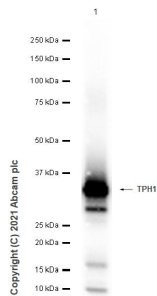
Predicted band size: 51 kDa

Additional bands at: 51 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 180 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

TPH1 is mainly expressed in non-neuronal peripheral tissues like pineal gland.



Western blot - Anti-Tryptophan Hydroxylase/TPH antibody [EP1311Y] (ab52954)

Anti-Tryptophan Hydroxylase/TPH antibody [EP1311Y] (ab52954) at 1/1000 dilution + N-His tagged human Tryptophan Hydroxylase/TPH (aa 105 to 420) recombinant protein at 0.01 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

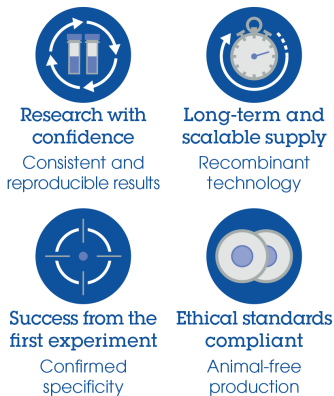
Predicted band size: 51 kDa

Observed band size: 35 kDa

Exposure time: 3 seconds

Blocking and diluting buffer and concentration: 5% NFDM/TBST

Why choose a recombinant antibody?



Anti-Tryptophan Hydroxylase/TPH antibody [EP1311Y] (ab52954)

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