

## Product datasheet

# Anti-Tryptophan Hydroxylase/TPH antibody [EP1311Y] - BSA and Azide free ab227845

Recombinant RabMAb

[9 References](#) [3 Images](#)

### Overview

<b>Product name</b>	Anti-Tryptophan Hydroxylase/TPH antibody [EP1311Y] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EP1311Y] to Tryptophan Hydroxylase/TPH - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Specificity</b>	The mouse recommendation is based on the WB results. We do not guarantee IHC-P for mouse.
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: N-His tagged human Tryptophan Hydroxylase/TPH (aa 105 to 420) recombinant protein
<b>General notes</b>	<p>ab227845 is the carrier-free version of <a href="#">ab52954</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.20 Constituent: PBS

<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EP1311Y
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab227845 in the following tested applications.

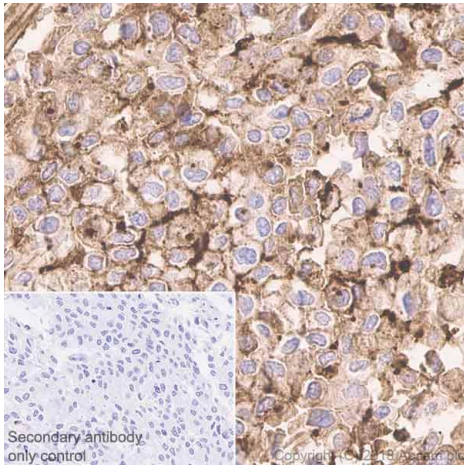
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>		Use at an assay dependent concentration. Detects a band of approximately 51 kDa (predicted molecular weight: 51 kDa).
<b>IHC-P</b>		Use at an assay dependent concentration. 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.

## Target

<b>Tissue specificity</b>	Isoform 2 seems to be less widely expressed than isoform 1.
<b>Pathway</b>	Aromatic compound metabolism; serotonin biosynthesis; serotonin from L-tryptophan: step 1/2.
<b>Sequence similarities</b>	Belongs to the bipterin-dependent aromatic amino acid hydroxylase family. Contains 1 ACT domain.

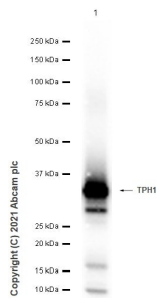
## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Tryptophan Hydroxylase/TPH antibody [EP1311Y] - BSA and Azide free (ab227845)

This data was developed using [ab52954](#), the same antibody clone in a different buffer formulation.

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] - BSA and Azide free (ab227845)

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

This data was developed using [ab52954](#), the same antibody clone in a different buffer formulation.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Tryptophan Hydroxylase/TPH antibody  
[EP1311Y] - BSA and Azide free (ab227845)

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

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