

## Product datasheet

# Anti-Tyrosine Hydroxylase antibody [EP1533Y] - Neuronal Marker ab75875

重组 RabMAb®

★★★★★ 7 Abreviews 42 References 5 图像

## 概述

产品名称	Anti-Tyrosine Hydroxylase抗体[EP1533Y] - Neuronal Marker
描述	兔单克隆抗体[EP1533Y] to Tyrosine Hydroxylase - Neuronal Marker
宿主	Rabbit
经测试应用	适用于: Flow Cyt (Intra), WB, ICC/IF 不适用于: IHC-P or IP
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. (Peptide available as <a href="#">ab183303</a> )
阳性对照	WB: Human adrenal gland lysate. SH-SY5Y whole cell lysate. Mouse and rat brain lysate. PC-12 whole cell lysate. ICC/IF: Neuro-2a and mouse midbrain neuron cells. Flow Cyt (intra): SH-SY5Y cells.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> For more information <a href="#">see here</a> . Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb® patents</a> .

## 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified

克隆	单克隆
克隆编号	EP1533Y
同种型	IgG

## 应用

### The Abpromise guarantee

**Abpromise™承诺保证使用ab75875于以下的经测试应用**

“应用说明”部分下显示的仅为推荐的起始稀释度；实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		1/20. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000. Predicted molecular weight: 59 kDa.
ICC/IF		1/50.

### 应用说明

Is unsuitable for IHC-P or IP.

## 靶标

### 功能

Plays an important role in the physiology of adrenergic neurons.

### 组织特异性

Mainly expressed in the brain and adrenal glands.

### 通路

Catecholamine biosynthesis; dopamine biosynthesis; dopamine from L-tyrosine: step 1/2.

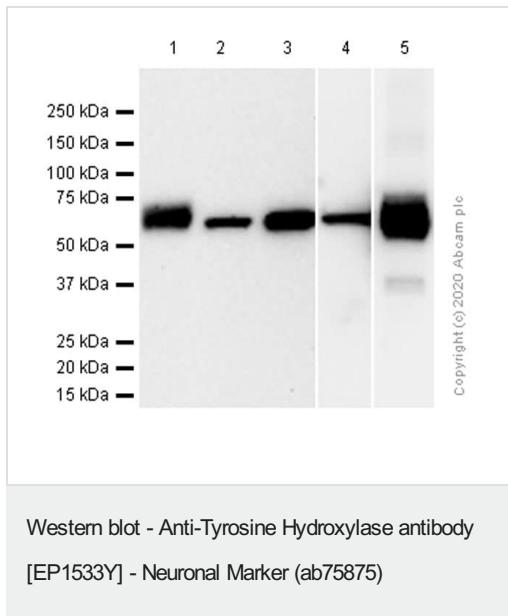
### 疾病相关

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.

### 序列相似性

Belongs to the biopterin-dependent aromatic amino acid hydroxylase family.

## 图片



**All lanes :** Anti-Tyrosine Hydroxylase antibody [EP1533Y] - Neuronal Marker (ab75875) at 1/1000 dilution (Purified)

**Lane 1 :** Human adrenal gland lysate

**Lane 2 :** SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysate

**Lane 3 :** Mouse brain lysate

**Lane 4 :** Rat brain lysate

**Lane 5 :** PC-12 (Rat adrenal gland pheochromocytoma ) whole cell lysate

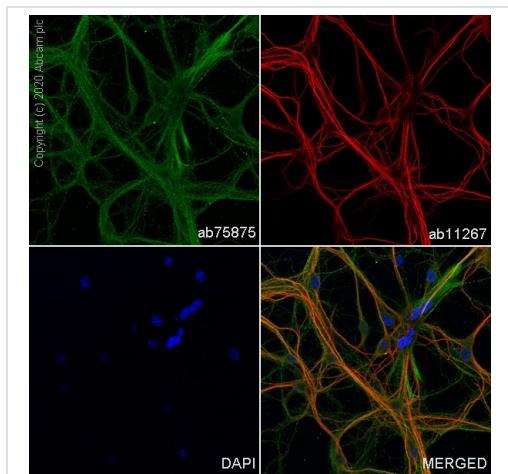
Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

**Predicted band size:** 59 kDa

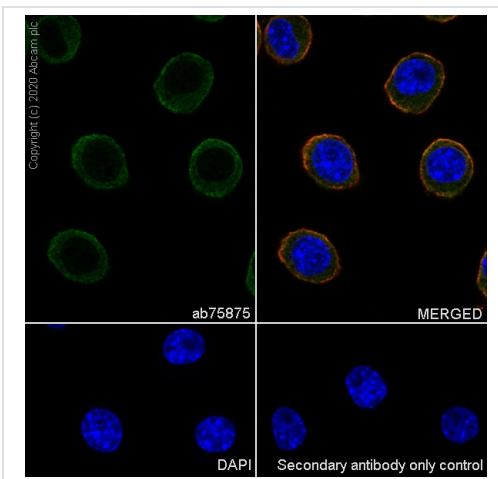
**Observed band size:** 59 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Tyrosine Hydroxylase antibody [EP1533Y] - Neuronal Marker (ab75875)

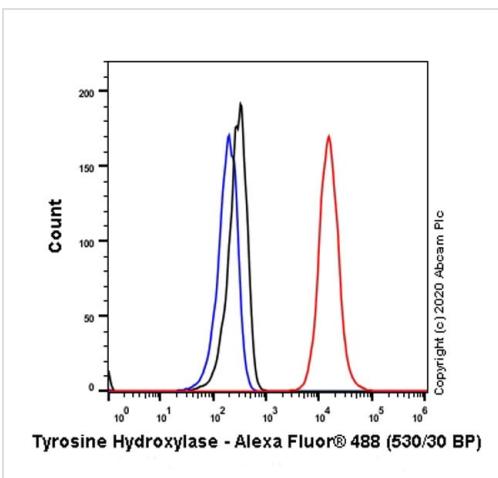
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized mouse midbrain neuron cells labelling Tyrosine Hydroxylase with ab75875 at 1/10 dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (2 µg/mL) (Green). Confocal image showing positive staining in mouse primary midbrain neuron. Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection. **ab11267** Anti-MAP2 mouse monoclonal antibody was used to counterstain tubulin at 1/500 dilution (4 µg/mL) (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution (2 µg/mL).



Immunocytochemistry/ Immunofluorescence - Anti-Tyrosine Hydroxylase antibody [EP1533Y] - Neuronal Marker (ab75875)

Immunocytochemistry analysis of Neuro-2a (Mouse neuroblastoma neuroblast) cells labeling Tyrosine Hydroxylase with purified ab75875 at 1/50 dilution (2.18 µg/mL). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/mL). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/mL) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Flow Cytometry (Intracellular) - Anti-Tyrosine Hydroxylase antibody [EP1533Y] - Neuronal Marker (ab75875)

Intracellular Flow Cytometry analysis of SH-SY5Y (Human neuroblastoma epithelial cell) cells labeling Tyrosine Hydroxylase with purified ab75875 at 1/20 dilution (10µg/mL) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).

## 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-Tyrosine Hydroxylase antibody [EP1533Y] -

Neuronal Marker (ab75875)

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

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