

Product datasheet for **CF506541**

Tyrosine Hydroxylase (TH) Mouse Monoclonal Antibody [Clone ID: OTI1A10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1A10
Applications:	IF, IHC, WB
Recommended Dilution:	WB 1:4000, IF 1:100, IHC: 1:150
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human TH(NP_000351) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	55.4 kDa
Gene Name:	tyrosine hydroxylase
Database Link:	NP_000351 Entrez Gene 21823 Mouse Entrez Gene 25085 Rat Entrez Gene 7054 Human P07101



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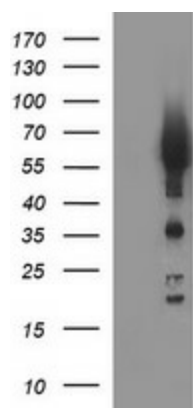
Background: The protein encoded by this gene is involved in the conversion of tyrosine to dopamine. It is the rate-limiting enzyme in the synthesis of catecholamines, hence plays a key role in the physiology of adrenergic neurons. Mutations in this gene have been associated with autosomal recessive Segawa syndrome. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Jul 2008]

Synonyms: DYT5b; DYT14; TYH

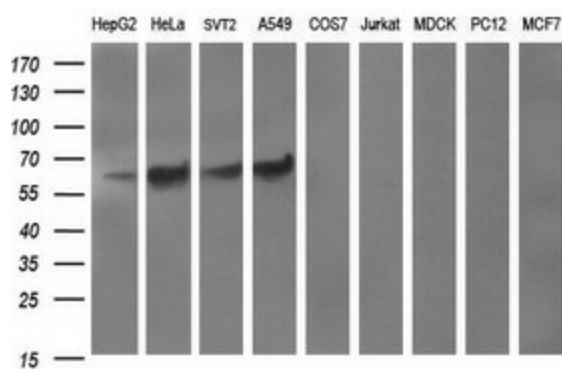
Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Parkinson's disease, Tyrosine metabolism

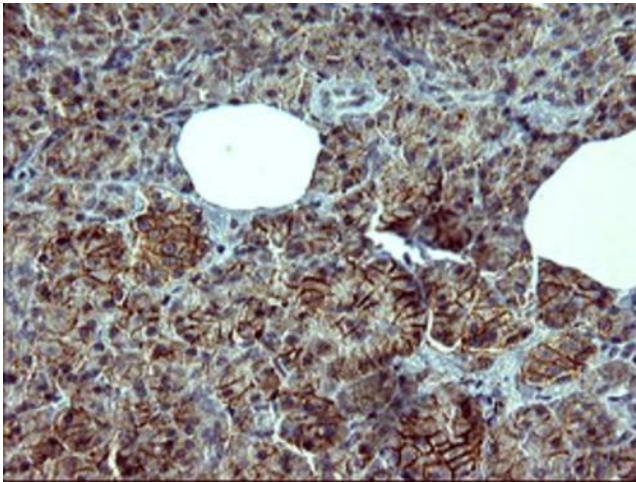
Product images:



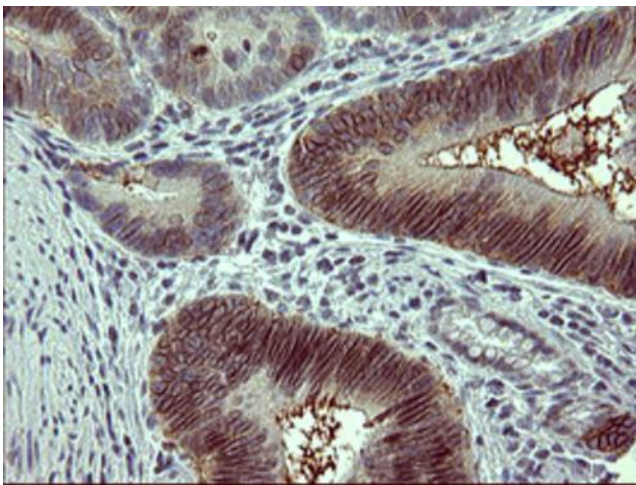
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TH (Cat# [RC211218], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TH (Cat# [TA506541]). Positive lysates [LY424777] (100ug) and [LC424777] (20ug) can be purchased separately from OriGene.



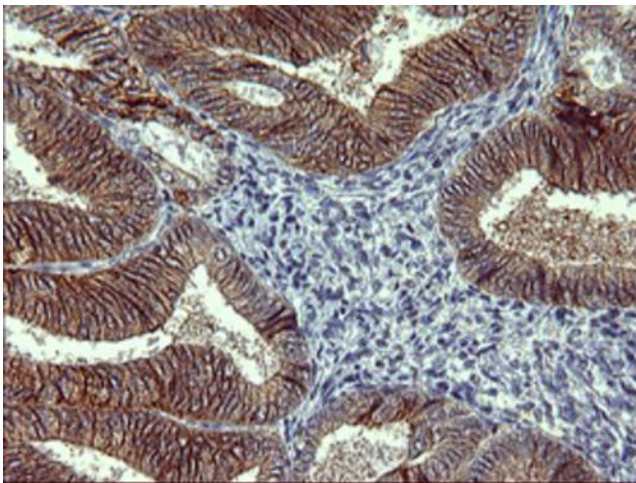
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-TH monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human). Dilution: 1:400



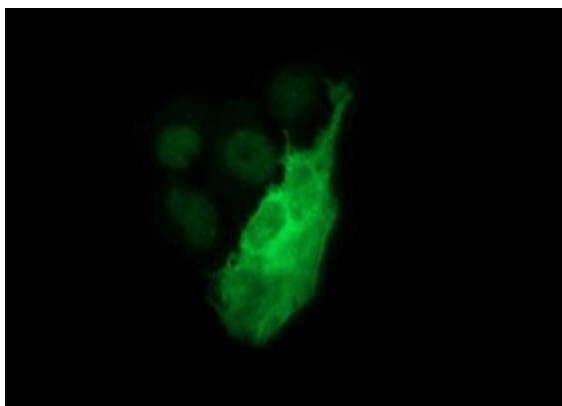
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-TH mouse monoclonal antibody. ([TA506541]). Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-TH mouse monoclonal antibody. ([TA506541]). Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-TH mouse monoclonal antibody. ([TA506541]). Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Anti-TH mouse monoclonal antibody ([TA506541]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY TH ([RC211218]).