Datasheet for ABIN272085

anti-Tyrosine Hydroxylase antibody

2 Images

Go to Product page

Overview

Quantity:	0.1 mg
Target:	Tyrosine Hydroxylase (TH)
Reactivity:	Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Tyrosine Hydroxylase antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Specificity:	This antibody detects endogenous levels of TH protein. (region surrounding Pro2)
Cross-Reactivity (Details):	Species reactivity (tested):Mouse and Rat.
Purification:	Affinity Chromatography using epitope-specific immunogen.

Target Details

Target:	Tyrosine Hydroxylase (TH)
Alternative Name:	Tyrosine 3-Monooxygenase (TH) (TH Products)
Background:	The enzyme tyrosine hydroxylase (TH), also designated tyrosine 3-monooxygenase (TY3H), catalyzes the conversion of tyrosine to L-dopa, which is the rate limiting step in the biosynthesis of catecholamines such as dopamine, adrenalin and noradrenalin. TH is thought to play a role in the pathogenesis of Parkinson's disease, which is associated with reduced dopamine levels.

Target Details

	Two transcription factor binding sites in the proximal region of the TH gene, the TPA-responsive element (TRE) and the c-AMP responsive element (CRE), have been implicated in the complex regulation of the TH gene. TH is also known to be upregulated by the glia maturation factor (GMF), a Cdc 10/SWI6 motif-containing protein called V-1, and a variety of additional compounds.Synonyms: TYH, Tyrosine 3-hydroxylase
Molecular Weight:	approx. 58 kDa
Gene ID:	25085
NCBI Accession:	NP_036872
UniProt:	P04177
Pathways:	Dopaminergic Neurogenesis, Response to Water Deprivation, Sensory Perception of Sound, Carbohydrate Homeostasis, Feeding Behaviour

Application Details

Application Notes:	ELISA: 1/20000approx. 1/40000. Western Blot: 1/500approx. 1/1000. Immunohistochemistry: 1/50approx. 1/200. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Concentration:	1,0 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH ~7.2, 0.05 % Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

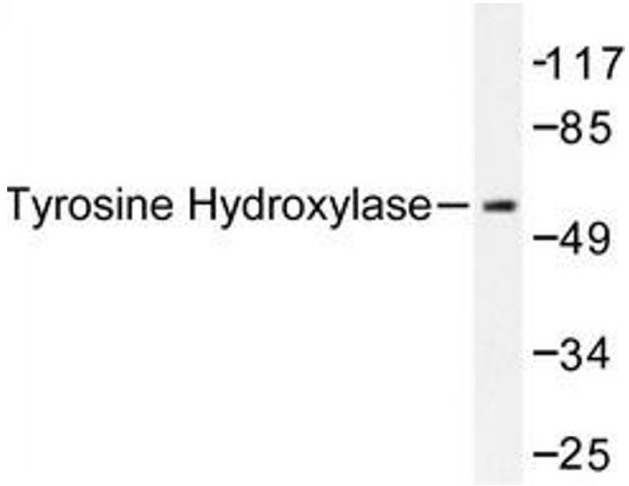

Image 1.

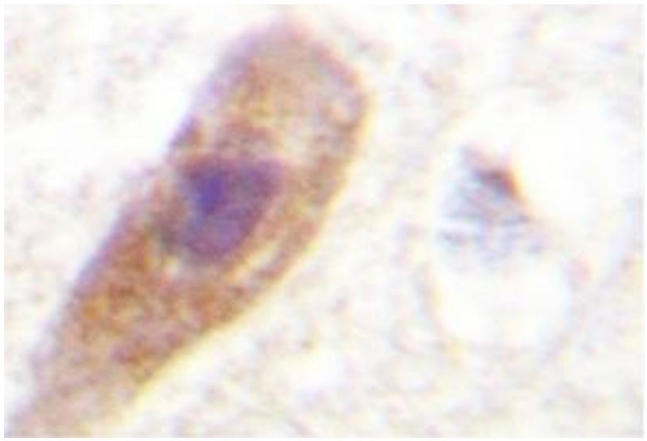

Image 2.