

Datasheet for ABIN372734

anti-Tyrosine Hydroxylase antibody[Go to Product page](#)**1** Image**6** Publications

Overview

Quantity:	0.1 mL
Target:	Tyrosine Hydroxylase (TH)
Reactivity:	Mammalian
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Tyrosine Hydroxylase antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Frozen Sections) (IHC (fro)), Dot Blot (DB)

Product Details

Immunogen:	SDS-denatured rat tyrosine hydroxylase, purified from pheochromocytoma.
Isotype:	IgG
Specificity:	Specific for the ~60k tyrosine hydroxylase protein. The antibody recognizes all mammalian and at least some non-mammalian forms of the enzyme in Western blots and in Immunohistochemistry/Immunofluorescence.
Cross-Reactivity (Details):	Species reactivity (tested):Mammalia.
Purification:	Affinity Chromatography on Protein A.

Target Details

Target:	Tyrosine Hydroxylase (TH)
Alternative Name:	Tyrosine 3-Monooxygenase (TH) (TH Products)

Target Details

Background:	Tyrosine hydroxylase (TH) is the rate-limiting enzyme in the synthesis of the catecholamines dopamine and norepinephrine. TH antibodies can therefore be used as markers for dopaminergic and noradrenergic neurons in a variety of applications including depression, schizophrenia, Parkinson's disease and drug abuse (Kish et al., 2001, Zhu et al., 2000, Zhu et al., 1999). TH antibodies can also be used to explore basic mechanisms of dopamine and norepinephrine signaling (Witkovsky et al., 2000, Salvatore et al., 2001, Dunkley et al., 2004).Synonyms: TYH, Tyrosine 3-hydroxylase
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:	Western blotting: 1/1,000. Immunofluorescence 1/1000 (Frozen Sections). Immunohistochemistry on Frozen Sections: 1/1000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg/mL BSA and 50 % Glycerol.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	-20 °C/-80 °C
Storage Comment:	Store the antibody undiluted (in aliquots) at -20 °C or (in aliquots) at -80 °C for long term storage.

Publications

Product cited in:	Grapensparr, Vasylovska, Li, Olerud, Jansson, Kozlova, Carlsson: "Co-transplantation of human pancreatic islets with post-migratory neural crest stem cells increases β -cell proliferation and
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vascular and neural regrowth." in: **The Journal of clinical endocrinology and metabolism**, Vol. 100, Issue 4, pp. E583-90, (2015) ([PubMed](#)).

Kirane, Toombs, Larsen, Ostapoff, Meshaw, Zaknoen, Brekken, Burrows: "Epithelial-mesenchymal transition increases tumor sensitivity to COX-2 inhibition by apicob." in: **Carcinogenesis**, Vol. 33, Issue 9, pp. 1639-46, (2012) ([PubMed](#)).

Kish, Kalasinsky, Derkach, Schmunk, Guttman, Ang, Adams, Furukawa, Haycock: "Striatal dopaminergic and serotonergic markers in human heroin users." in: **Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology**, Vol. 24, Issue 5, pp. 561-7, (2001) ([PubMed](#)).

Salvatore, Waymire, Haycock: "Depolarization-stimulated catecholamine biosynthesis: involvement of protein kinases and tyrosine hydroxylase phosphorylation sites in situ." in: **Journal of neurochemistry**, Vol. 79, Issue 2, pp. 349-60, (2001) ([PubMed](#)).

Witkovsky, Gabriel, Haycock, Meller: "Influence of light and neural circuitry on tyrosine hydroxylase phosphorylation in the rat retina." in: **Journal of chemical neuroanatomy**, Vol. 19, Issue 2, pp. 105-16, (2000) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

Images

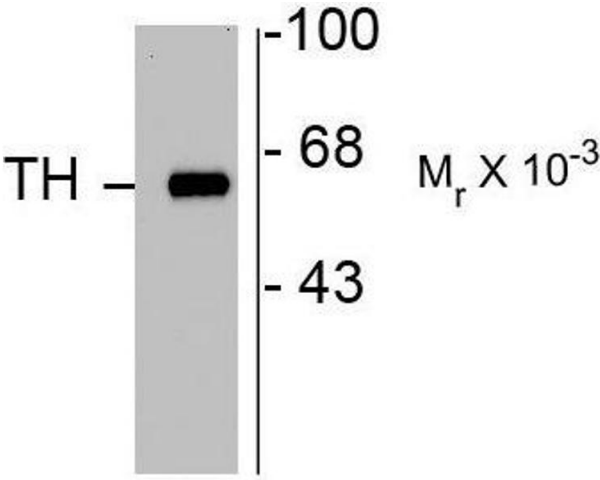


Image 1.