

Tyrosine Hydroxylase(Ab-31) Antibody

Catalog No: #21294

Package Size: #21294-1 50ul #21294-2 100ul

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Description

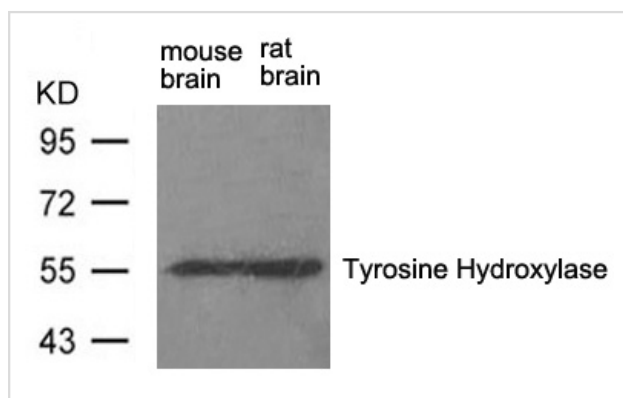
Product Name	Tyrosine Hydroxylase(Ab-31) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB
Species Reactivity	Ms Rt
Specificity	The antibody detects endogenous levels of total Tyrosine Hydroxylase protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.29~33(V-T-S-P-R)derived from Mouse Tyrosine Hydroxylase.
Conjugates	Unconjugated
Target Name	Tyrosine Hydroxylase
Other Names	TYH; DYT14; DYT5b; TH;
Accession No.	Swiss-Prot: P07101NCBI Protein: NP_954986.2
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

Predicted MW: 55-60kd

Western blotting: 1:500~1:1000

Images



Western blot analysis of extract from rat brain and mouse brain using Tyrosine Hydroxylase(Ab-31) Antibody #21294.

Background

Tyrosine hydroxylase (TH) catalyzes the rate-limiting step in the synthesis of the neurotransmitter dopamine and other catecholamines. TH functions as a tetramer, with each subunit composed of a regulatory and catalytic domain, and exists in several different isoforms. This enzyme is required for embryonic development since TH knockout mice die before or at birth. Levels of transcription, translation and posttranslational modification regulate TH activity. The amino-terminal regulatory domain contains three serine residues: Ser9, Ser31 and Ser40. Phosphorylation at Ser40 by PKA positively regulates the catalytic activity of TH. Phosphorylation at Ser31 by CDK5 also increases the catalytic activity of TH through stabilization of TH protein levels.

Kumer, S.C. and Vrana, K.E. (1996) J Neurochem 67, 443-62.

Bodeau-P

Note: This product is for in vitro research use only and is not intended for use in humans or animals.