

35-1623: Polyclonal Antibody to Tyrosine Hydroxylase (Ab-31)

Clonality :	Polyclonal
Application :	WB
Reactivity :	Rat,Mouse
Gene :	TH
Gene ID :	7054
Uniprot ID :	P07101
Format :	Purified
Alternative Name :	TYH, DYT14, DYT5b, TH
Isotype :	Rabbit IgG
Immunogen Information :	Peptide sequence around aa.29~33(V-T-S-P-R)derived from Mouse Tyrosine Hydroxylase.

Description

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.

Product Info

Amount :	50 μ l / 100 μ l
Content :	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 condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Predicted MW: 55-60kd, Western blotting: 1:500~1:1000

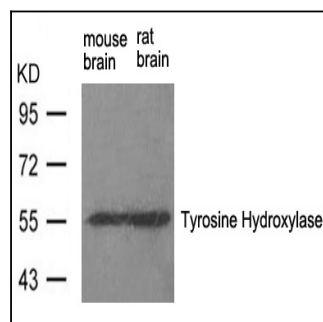


Figure 1: Western blot analysis of extract from rat brain and mouse brain using Tyrosine Hydroxylase(Ab-31) Antibody 35-1623.