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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 µl / 100 µl
Content :	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), 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

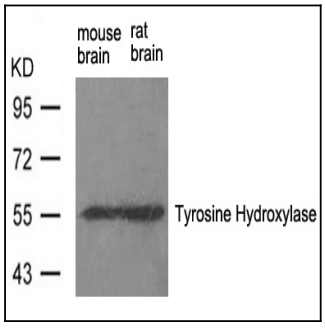

Figure 1: Western blot analysis of extract from rat brain and mouse brain using Tyrosine Hydroxylase(Ab-31) Antibody 35-1623 .