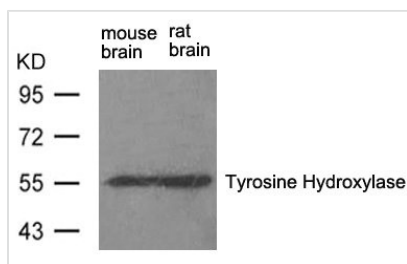




TH (Ab-31) Antibody

Product Code	CSB-PA695636
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P07101
Immunogen	Peptide sequence around aa.29~33(V-T-S-P-R)derived from Mouse Tyrosine Hydroxylase.
Raised In	Rabbit
Species Reactivity	Mouse,Rat
Specificity	The antibody detects endogenous levels of total Tyrosine Hydroxylase protein.
Tested Applications	ELISA,WB;WB:1:500-1:1000
Relevance	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
Form	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.
Purification Method	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Clonality	Polyclonal
Alias	TYH; DYT14; DYT5b; TH;
Product Type	Polyclonal Antibody
Species	Homo sapiens (Human)
Target Names	TH
Image	



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