



# TH (phospho Ser8) rabbit pAb

Cat No.:ES4390

For research use only

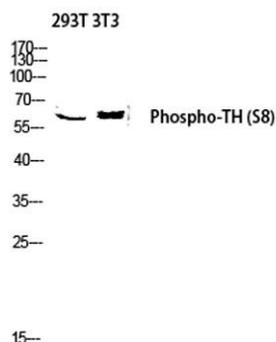
## Overview

<b>Product Name</b>	TH (phospho Ser8) rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Rat
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from mouse Tyrosine Hydroxylase around the phosphorylation site of Ser8. AA range:2-51
<b>Specificity</b>	Phospho-TH (S8) Polyclonal Antibody detects endogenous levels of TH protein only when phosphorylated at S8.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Tyrosine 3-monooxygenase
<b>Gene Name</b>	TH
<b>Cellular localization</b>	
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	62kD
<b>Human Gene ID</b>	
<b>Human Swiss-Prot Number</b>	
<b>Alternative Names</b>	TH; TYH; Tyrosine 3-monooxygenase; Tyrosine 3-hydroxylase; TH
<b>Background</b>	The tyrosine hydroxylase encoded by TH is involved in the conversion of tyrosine to dopamine. It is the rate-limiting enzyme in the synthesis of



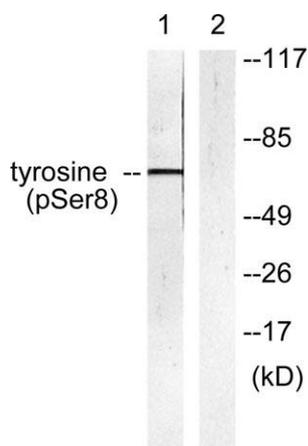
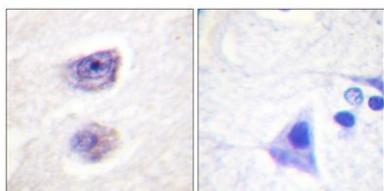


catecholamines, hence plays a key role in the physiology of adrenergic neurons. Mutations in this gene have been associated with autosomal recessive Segawa syndrome. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.



Western blot analysis of 293T 3T3 lysis using Phospho-TH (S8) antibody. Antibody was diluted at 1:1000

Immunohistochemistry analysis of paraffin-embedded human brain, using Tyrosine Hydroxylase (Phospho-Ser8) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HepG2 cells treated with Anisomycin 25ug/ml 30', using Tyrosine Hydroxylase (Phospho-Ser8) Antibody. The lane on the right is blocked with the phospho peptide.

