Rabbit Anti-Th Polyclonal Antibody

CPB-840RR   Rabbit(Th)
Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview	Rabbit Anti-Th Polyclonal Antibody
Antigen Description	The protein encoded by Tyrosine Hydroxylase 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.
specificity	The antibody detects endogenous level of Tyrosine Hydroxylase only when phosphorylated at serine19.
Target	Th
Immunogen	Peptide sequence around phosphorylation site of serine19 (A-V-S(p)-E-Q) derived from Rat Tyrosine Hydroxylase (TH).
Host	Rabbit
Species	Rat
Cross Reactivity	Rat
conjugation	N/A
Applications	IFA

PACKAGING

Format	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	Store at -20°C /1 year

ANTIGEN GENE INFORMATION

Gene Name	Th tyrosine hydroxylase [Rattus norvegicus]
Official Symbol	Th
Synonyms	TH; tyrosine hydroxylase; tyrosine 3-monooxygenase; tyrosine 3-hydroxylase; The;
GeneID	25085
mRNA Refseq	NM_012740
Protein Refseq	NP_036872
Pathway	Amine-derived hormones, organism-specific biosystem; Amphetamine addiction, organism-specific biosystem; Amphetamine addiction, conserved biosystem; Biogenic Amine Synthesis, organism-specific biosystem; Catecholamine biosynthesis, organism-specific biosystem; Catecholamine biosynthesis, tyrosine => dopamine =>

Function

amino acid binding; amino acid binding; dopamine binding; ferric iron binding; ferrous iron binding; metal ion binding; monooxygenase activity; oxygen binding; protein binding; protein domain specific binding; tetrahydrobiopterin binding; tyrosine 3-monooxygenase activity; tyrosine 3-monooxygenase activity; tyrosine 3-monooxygenase activity;