

## Product datasheet for **AP31824PU-N**

### Tyrosine Hydroxylase (TH) Chicken Polyclonal Antibody

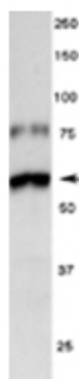
#### Product data:

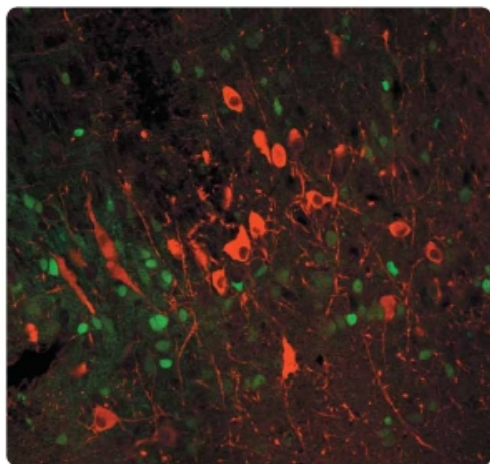
Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western Blot.</b> <b>Immunocytochemistry.</b> <b>Immunohistochemistry.</b> <i>Recommended Dilutions:</i> 1/2000-1/5000 for Western Blots. 1/1000-1/2000 for Immunohistochemistry and Immunocytochemistry using 2% paraformaldehyde-fixed tissues or cells. <b>Quality Control:</b> Both of the the antibodies was analyzed by Immunohistochemistry (at 3 µg/ml) using Fluorescein-labeled Goat anti-Chicken IgY (1/500 dilution, Cat.-No AP31795FC-N) as the secondary reagent.
Reactivity:	Human, Mouse
Host:	Chicken
Isotype:	IgY
Clonality:	Polyclonal
Immunogen:	Two antipeptide antibodies were generated in Chickens against sequences shared between the Mouse (P24529) and Human (P07101) gene products. <b>Production:</b> After repeated injections, immune eggs were collected, and the IgY fractions were purified from the yolks. These IgY fractions were then affinity-purified using a peptide column, and the concentrations of the eluates adjusted to 0.2 mg/ml. Finally, equal volumes of both of these affinity purified anti-peptide antibodies were mixed, and the preparation was filter-sterilized.
Specificity:	Recognizes Tyrosine Hydroxylase (TYH).
Formulation:	10mM PBS, pH 7.2 containing 0.02% Sodium Azide as preservative. State: Aff - Purified State: Liquid purified (filter sterilized) IgY fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography using a peptide column.
Conjugation:	Unconjugated



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<b>Storage:</b>	Store the antibody undiluted in the dark at 2-8°C.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	tyrosine hydroxylase
<b>Database Link:</b>	<a href="#">Entrez Gene 21823 Mouse</a> <a href="#">Entrez Gene 7054 Human</a> <a href="#">P07101</a>
<b>Background:</b>	Human TYH (EC 1.14.16.2) is a 58,523 dalton protein (528 amino acids) responsible for the enzymatic conversion of L-tyrosine to L-DOPA (dihydroxyphenylalanine). This enzyme is expressed in all catecholaminergic neurons of the CNS and PNS. In the CNS, TYH-positive neurons can be found within the substantia nigra, ventral tegmental area, locus ceruleus, and hypothalamus. In the PNS, TYH-positive neurons can be found within the sympathetic chain, pre-vertebral ganglia and the adrenal medulla.
<b>Synonyms:</b>	Tyrosine 3-hydroxylase, TYH
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Parkinson's disease, Tyrosine metabolism

**Product images:**



Tissue section through an adult Mouse brain showing TH (red staining) in catecholaminergic neurons of the substantia nigra (pars compacta). The green staining is the autofluorescence of green fluorescent protein (GFP) in neurons in this transgenic animal.