Datasheet for ABIN955409

anti-Tyrosine Hydroxylase antibody

2 Images

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Overview

Quantity:	0.2 mg
Target:	Tyrosine Hydroxylase (TH)
Reactivity:	Human, Mouse
Host:	Chicken
Clonality:	Polyclonal
Conjugate:	This Tyrosine Hydroxylase antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Two antipeptide antibodies were generated in Chickens against sequences shared between the Mouse (P24529) and Human (P07101) gene products. Production: 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.
Isotype:	Ig Fraction
Specificity:	Recognizes Tyrosine Hydroxylase (TYH).
Purification:	Affinity Chromatography using a peptide column.

Target Details

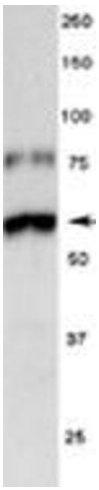
Target:	Tyrosine Hydroxylase (TH)
Alternative Name:	Tyrosine 3-Monooxygenase (TH) (TH Products)
Background:	Human TYH (EC 1.14.16.2) is a 58,523 dalton protein (528 amino acids) responsible for the enzymatic conversion of L-tyrosine to L-DOPA (dihydroxyphenylalanine). This enzyme is expressed in all 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.Synonyms: TYH, Tyrosine 3-hydroxylase
Gene ID:	7054
NCBI Accession:	NP_000351
Pathways:	Dopaminergic Neurogenesis, Response to Water Deprivation, Sensory Perception of Sound, Carbohydrate Homeostasis, Feeding Behaviour

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

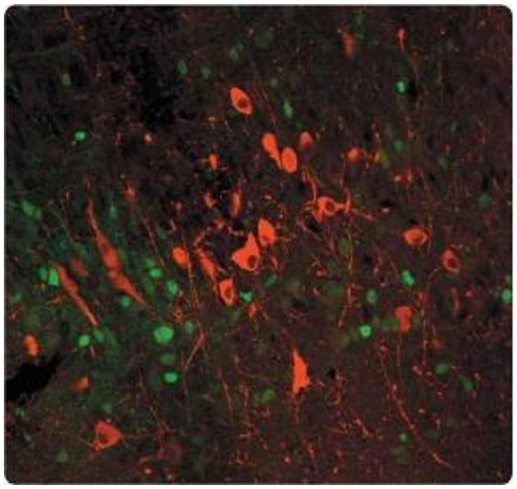
Handling

Concentration:	0.2 mg/mL
Buffer:	10 mM PBS, pH 7.2 containing 0.02 % Sodium Azide as preservative.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store the antibody undiluted in the dark at 2-8 °C.



Western Blotting

Image 1.



Immunofluorescence

Image 2. Tissue section through an adult Mouse brain showing TYH (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.