OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-888-267-4436
Fax: +1-301-340-8606
techsupport@origene.com

OriGene Technologies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info-de@origene.com

AP09493PU-S Polyclonal Antibody to Tyrosine 3-monooxygenase (TH) pSer40 - Aff - Purified

Alternate names: TYH, Tyrosine 3-hydroxylase

Quantity: 50 µg

Concentration: 1,0 mg/ml

Background: Tyrosine hydroxylase is involved in the conversion of tyrosine to dopamine. As the rate-limiting enzyme in the synthesis of catecholamines, tyrosine hydroxylase has a key role in the physiology of adrenergic neurons. Tyrosine hydroxylase is regularly used as a marker for dopaminergic neurons, which is particularly relevant for research into Parkinson's disease

Uniprot ID: P07101

NCBI: NP_000351

GeneID: 7054

Host: Rabbit

Immunogen: Synthesized phosphopeptide derived from human Tyrosine Hydroxylase around the phosphorylation site of serine 40(R-Q-SP-L-I)

Format:
State: Liquid purified IgG
Purification: Affinity chromatography
Buffer System: Phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol

Applications:
Immunofluorescence: 1/100 - 1/200.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:
Tyrosine Hydroxylase (Phospho-Ser40) Antibody detects endogenous levels of Tyrosine Hydroxylase only when phosphorylated at serine 40.
Species: Human, Mouse, Rat.
Other species not tested.

Storage:
Store the antibody at -20°C.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:
1. Vazin T, et al. Stem Cells. 2008 Jun;26(6):1517-25
2. Pistocchi A, et al. BMC Dev Biol. 2008 Mar 10;8:27
3. Fukakusa A, et al. J Pharmacol Sci. 2008 Feb;106(2):321-4.

Pictures:

Immunofluorescence staining of methanol-fixed HeLa cells using Tyrosine Hydroxylase (Phospho-Ser40) Antibody