

Product datasheet

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ARG52463 anti-Tyrosine Hydroxylase phospho (Ser31) antibody

Package: 50 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes Tyrosine Hydroxylase phospho (Ser31)

Tested Reactivity Ms, Rat

Predict Reactivity NHuPrm

Tested Application ICC/IF, IHC-P, WB

Host Rabbit
Clonality Polyclonal

Isotype IgG

Target Name Tyrosine Hydroxylase

Species Rat

Immunogen Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser31 conjugated to KLH

Conjugation Un-conjugated

Alternate Names DYT14; TYH; Tyrosine 3-monooxygenase; Tyrosine 3-hydroxylase; TH; DYT5b; EC 1.14.16.2

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:1000
	IHC-P	1:1000
	WB	1:1000
Application Note	Specific for the ~60k tyrosine hydroxylase protein phosphorylated at Ser31. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Affinity Purified

Buffer 10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol

Stabilizer 0.1 mg/ml BSA, 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links GeneID: 21823 Mouse

GeneID: 25085 Rat

Swiss-port # P04177 Rat

Swiss-port # P24529 Mouse

Gene Symbol Th

Gene Full Name tyrosine hydroxylase

Background Tyrosine hydroxylase (TH) is the rate-limiting enzyme in the synthesis of the catecholamines dopamine

and norepinephrine. TH antibodies can therefore be used as markers for dopaminergic and noradrenergic neurons in a variety of applications including depression, schizophrenia, Parkinson's disease and drug abuse (Kish et al., 2001; Zhu et al., 2000; Zhu et al., 1999). TH antibodies can also be used to explore basic mechanisms of dopamine and norepinephrine signaling (Witkovsky et al., 2000; Salvatore et al., 2001; Dunkley et al., 2004). The activity of TH is also regulated by phosphorylation (Haycock et al., 1982; Haycock et al., 1992; Jedynak et al., 2002). Phospho-specific antibodies for the phosphorylation sites on TH can be used to great effect in studying this regulation and in identifying the

cells in which TH phosphorylation occurs.

Highlight Related Antibody Duos and Panels:

ARG30212 Phospho Tyrosine Hydroxylase Antibody Panel (Total, pS31, pS40)

Related products:

<u>Tyrosine Hydroxylase antibodies;</u> <u>Tyrosine Hydroxylase Duos / Panels;</u> <u>Anti-Rabbit IgG secondary</u>

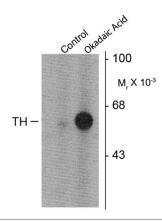
antibodies; Related news:

Astrocyte-to-neuron conversion for Parkinson's disease treatment

Research Area Cancer antibody; Metabolism antibody; Neuroscience antibody

Calculated Mw 59 kDa

Images



ARG52463 anti-Tyrosine Hydroxylase phospho (Ser31) antibody WB image

Western blot: PC-12 cells incubated in the absence (Control) and presence of okadaic acid (OA, 1 μM for 60 min) showing specific immunolabeling of the ^60 kDa TH phosphorylated at Ser31 stained with ARG52463 anti-Tyrosine Hydroxylase phospho (Ser31) antibody.