

Product datasheet

info@arigobio.com

ARG52464 anti-Tyrosine Hydroxylase phospho (Ser40) antibody

Package: 50 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes Tyrosine Hydroxylase phospho (Ser40)

Tested Reactivity Hu, Ms, Rat, Mamm

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 Ser40 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 Ser40. Some higher molecular weight bands may be detected by the antibody depending upon the brain region being studied, protein loads and the detection methods used. The antibody has three orders of magnitude selectivity over dephospho TH. * 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.	

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Bioinformation

Gene Symbol Gene Full Name Background TH

tyrosine hydroxylase

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:

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

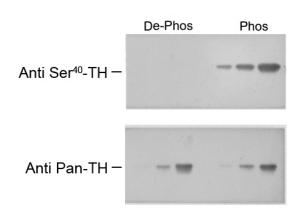
antibodies; Related news:

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

Research Area Calculated Mw Cancer antibody; Metabolism antibody; Neuroscience antibody

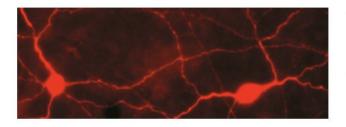
59 kDa

Images



ARG52464 anti-Tyrosine Hydroxylase phospho (Ser40) antibody WB image

Western blot: Recombinant phospho- and dephospho-Tyrosine Hydroxylase. The blots were stained with anti-pan Tyrosine Hydroxylase antibody and ARG52464 anti-Tyrosine Hydroxylase phospho (Ser40) antibody.



ARG52464 anti-Tyrosine Hydroxylase phospho (Ser40) antibody IHC image

Immunohistochemistry: Light-stimulated Rabbit retina stained with ARG52464 anti-Tyrosine Hydroxylase phospho (Ser40) antibody showing labeling of TH when phosphorylated at Ser40.