

ARG52456 anti-TPH1 antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Sheep Polyclonal antibody recognizes TPH1
Tested Reactivity	Hu, Rat
Predict Reactivity	Mamm
Tested Application	IHC-Fr, WB
Host	Sheep
Clonality	Polyclonal
Isotype	IgG
Target Name	TPH1
Species	Rabbit
Immunogen	Recombinant rabbit tryptophan hydroxylase, isolated as inclusion bodies from E. coli and purified by preparative SDS-PAGE
Conjugation	Un-conjugated
Alternate Names	Tryptophan 5-hydroxylase 1; TRPH; EC 1.14.16.4; Tryptophan 5-monoxygenase 1; TPRH

Application Instructions

Application table	Application	Dilution
	IHC-Fr	Assay-dependent
	WB	1:1000
Application Note	<p>Specific for the ~55k tryptophan hydroxylase protein.</p> <p>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.</p>	

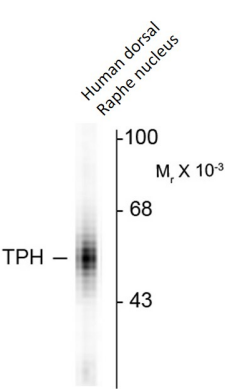
Properties

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: 24848 Rat GeneID: 7166 Human Swiss-port # P09810 Rat Swiss-port # P17752 Human
Gene Symbol	TPH1
Gene Full Name	tryptophan hydroxylase 1
Background	Tryptophan hydroxylase (TPH) catalyzes the first step in the biosynthesis of serotonin and melatonin (Martinez et al., 2001). Thus, expression of TPH can be used as an indicator of the localization of serotonin and melatonin in brain. In mammals, serotonin biosynthesis occurs predominantly in neurons which originate in the Raphe nuclei of the brain, and melatonin synthesis takes place within the pineal gland (Haycock et al., 2002) . Although TPH catalyzes the same reaction within the Raphe nuclei and the pineal gland, TPH activity is rate-limiting for serotonin but not melatonin biosynthesis (Martinez et al., 2001).
Research Area	Cancer antibody; Metabolism antibody; Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	51 kDa

Images



ARG52456 anti-TPH1 antibody WB image

Western blot: Human dorsal Raphe nucleus showing specific immunolabeling of the ~55 kDa tryptophan hydroxylase protein stained with ARG52456 anti-TPH1 antibody.