

TH (phospho Ser71) Polyclonal Antibody
Catalog # AP67521**Specification**

TH (phospho Ser71) Polyclonal Antibody - Product Information

Application	WB, IHC-P
Primary Accession	P07101
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

TH (phospho Ser71) Polyclonal Antibody - Additional Information**Gene ID** 7054**Other Names**

TH; TYH; Tyrosine 3-monooxygenase; Tyrosine 3-hydroxylase; TH

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.

IHC-P~~N/A

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

TH (phospho Ser71) Polyclonal Antibody - Protein Information**Name** TH ([HGNC:11782](#))**Synonyms** TYH**Function**

Catalyzes the conversion of L-tyrosine to L- dihydroxyphenylalanine (L-Dopa), the rate-limiting step in the biosynthesis of catecholamines, dopamine, noradrenaline, and adrenaline. Uses tetrahydrobiopterin and molecular oxygen to convert tyrosine to L-Dopa (PubMed:15287903, PubMed:1680128, PubMed:17391063, PubMed:24753243, PubMed:34922205, PubMed:8528210, Ref.18). In addition to tyrosine, is able to catalyze the hydroxylation of phenylalanine and tryptophan with lower specificity (By similarity). Positively regulates the regression of retinal hyaloid vessels during postnatal development (By similarity).

Cellular Location

Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:P24529}. Nucleus {ECO:0000250|UniProtKB:P04177}. Cell projection, axon {ECO:0000250|UniProtKB:P24529}. Cytoplasm {ECO:0000250|UniProtKB:P04177}. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle {ECO:0000250|UniProtKB:P04177}. Note=When phosphorylated at Ser-19 shows a nuclear distribution and when phosphorylated at Ser-31 as well at Ser-40 shows a cytosolic distribution (By similarity). Expressed in dopaminergic axons and axon terminals. {ECO:0000250|UniProtKB:P04177}

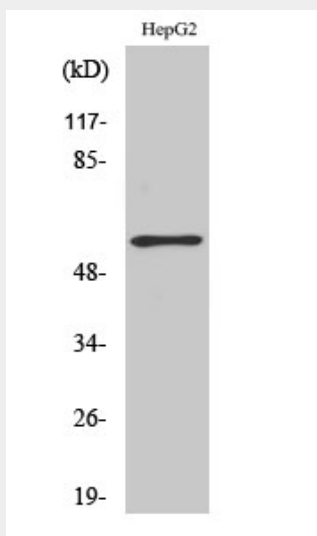
Tissue Location

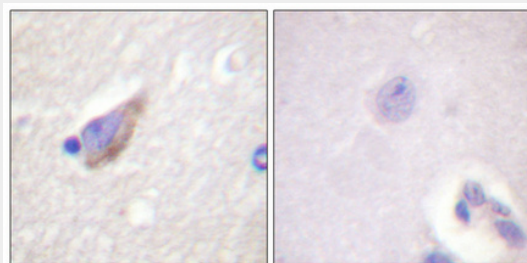
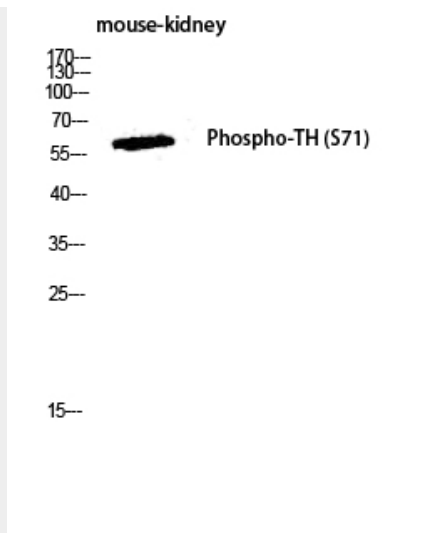
Mainly expressed in the brain and adrenal glands.

TH (phospho Ser71) Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TH (phospho Ser71) Polyclonal Antibody - Images



TH (phospho Ser71) Polyclonal Antibody - Background

Plays an important role in the physiology of adrenergic neurons.