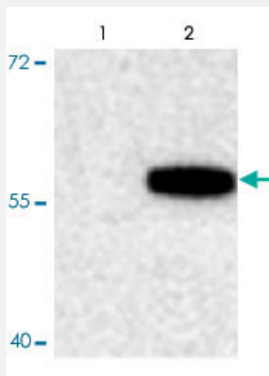


Tph2 (phospho S19) polyclonal antibody

Catalog # PAB9644 Size 100 uL

Applications



Western Blot (Recombinant protein)

Western blot of recombinant tryptophan hydroxylase incubated in the absence (Control, lane 1) and presence of Ca²⁺/calmodulin dependent kinase II (CaMKII, lane 2) showing specific immunolabeling of the ~55k Tph2 protein phosphorylated at Ser19.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of Tph2.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding S19 of rat Tph2.
Host	Rabbit
Theoretical MW (kDa)	55
Reactivity	Bovine, Mouse, Rat, Zebra fish
Form	Liquid
Purification	Affinity purification
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM HEPES, 150 mM NaCl, pH 7.5 (50% glycerol, 10% BSA)

Storage Instruction

Store at -20°C.

Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

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Gene Info — Tph2

Entrez GeneID	317675
Protein Accession#	Q8CGU9
Gene Name	Tph2
Gene Alias	Ntph
Gene Description	tryptophan hydroxylase 2
Gene Ontology	Hyperlink
Other Designations	neuronal tryptophan hydroxylase

Publication Reference

- [Phosphorylation and activation of tryptophan hydroxylase 2: identification of serine-19 as the substrate site for calcium, calmodulin-dependent protein kinase II.](#)

Kuhn DM, Sakowski SA, Geddes TJ, Wilkerson C, Haycock JW.

Journal of Neurochemistry 2007 Nov; 103(4):1567.

Application: WB-Re, Recombinant protein

- [Different properties of the central and peripheral forms of human tryptophan hydroxylase.](#)

McKinney J, Knappskog PM, Haavik J.

Journal of Neurochemistry 2005 Jan; 92(2):311.

- [A structural approach into human tryptophan hydroxylase and its implications for the regulation of serotonin biosynthesis.](#)

Martinez A, Knappskog PM, Haavik J.

Current Medicinal Chemistry 2001 Jul; 8(9):1077.