

Datasheet for ABIN550168

anti-Tryptophan Hydroxylase 2 antibody (pSer19)**1** Image**3** Publications[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	Tryptophan Hydroxylase 2 (TPH2)
Binding Specificity:	pSer19
Reactivity:	Mouse, Rat, Cow, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Tryptophan Hydroxylase 2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit polyclonal antibody raised against synthetic phosphopeptide of Tph2.
Immunogen:	Synthetic phosphopeptide corresponding to residues surrounding S19 of rat Tph2.
Cross-Reactivity:	Cow, Mouse, Rat, Zebrafish (Danio rerio)
Characteristics:	Antibody Reactive Against Synthetic Peptide.

Target Details

Target:	Tryptophan Hydroxylase 2 (TPH2)
Alternative Name:	Tryptophan 5-hydroxylase 2 (TPH2) (TPH2 Products)
Gene ID:	317675

Application Details

Application Notes: Western Blot (1:1000)
The optimal working dilution should be determined by the end user.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: In 10 mM HEPES, 150 mM NaCl, pH 7.5 (50 % glycerol, 10 % BSA)

Storage: -20 °C

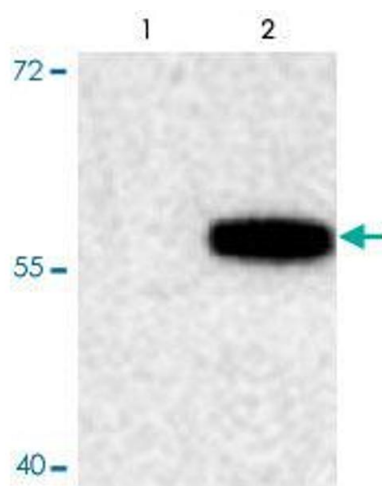
Storage Comment: Store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Publications

Product cited in: Kuhn, Sakowski, Geddes, Wilkerson, Haycock: "Phosphorylation and activation of tryptophan hydroxylase 2: identification of serine-19 as the substrate site for calcium, calmodulin-dependent protein kinase II." in: **Journal of neurochemistry**, Vol. 103, Issue 4, pp. 1567-73, (2007) ([PubMed](#)).

McKinney, Knappskog, Haavik: "Different properties of the central and peripheral forms of human tryptophan hydroxylase." in: **Journal of neurochemistry**, Vol. 92, Issue 2, pp. 311-20, (2005) ([PubMed](#)).

Martínez, Knappskog, Haavik: "A structural approach into human tryptophan hydroxylase and its implications for the regulation of serotonin biosynthesis." in: **Current medicinal chemistry**, Vol. 8, Issue 9, pp. 1077-91, (2001) ([PubMed](#)).



Western Blotting

Image 1. 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.