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Datasheet for ABIN768607 anti-Tryptophan Hydroxylase 2 antibody (AA 16-29)





Overview

Quantity:	100 µg
Target:	Tryptophan Hydroxylase 2 (TPH2)
Binding Specificity:	AA 16-29
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This Tryptophan Hydroxylase 2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Purpose:	TPH2 (aa16-29)
Immunogen:	Peptide with sequence RGFSLDSAVPEEHQ-C, from the N Terminus of the protein sequence according to NP_775489.2.
Sequence:	RGFSLDSAVP EEHQ
Isotype:	lgG
Cross-Reactivity:	Cow, Dog, Human, Mouse, Pig, Rat
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Grade:	Verified

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Target Details

Target:	Tryptophan Hydroxylase 2 (TPH2)
Alternative Name:	TPH2 (TPH2 Products)
Background:	TPH2, tryptophan hydroxylase 2, ADHD7, FLJ37295, MGC138871, MGC138872, NTPH, neuronal tryptophan hydroxylase, tryptophan 5-hydroxylase 2, tryptophan 5-monooxygenase 2
Molecular Weight:	56.1kDa according to NP_775489.2
Gene ID:	121278, 216343, 317675
NCBI Accession:	NP_775489

Application Details

Application Notes:	Immunohistochemistry: Cryosections of Human Hypothalamus. Optimal dilution 1:5000.
	Western Blot: Approx 60 kDa band observed in lysates of cell line HEK293 (calculated MW of
	56.1 kDa according to NP_775489.2). Recommended concentration: 0.5-2 $\mu\text{g}/\text{mL}.$ Primary
	incubation was 1 hour.
	Peptide ELISA: antibody detection limit dilution 1:128000.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Supplied at 0.5 mg/mL in Tris saline, 0.02 % sodium azide, pH 7.3 with 0.5 % bovine serum albumin.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Minimize freezing and thawing.
Storage:	-20 °C
Storage Comment:	Aliquot and store at -20°C, with minimal freeze/thawing. A working aliquot may be refrigerated at 4°C for a few weeks and still remain viable.

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Immunohistochemistry

Image 1. (ABIN768607) (scale bar: 50 µm) immunostaining of TPH2 processes in cryosection of the infundibular nucleus of an immersion-fixed (4 % PFA) human hypothalamus. HRP-staining with Ni-DAB, after Biotin-SPanti-goat (IgG) method. Data obtained by Drs. Eva Rumpler a

250kDa
150kDa
100kDa
75kDa
50kDa
37kDa
25kDa
20kDa
15kDa

Western Blotting

Image 2. (ABIN768607) ($0.5 \mu g/mL$) staining of HEK293 lysate ($35 \mu g$ protein in RIPA buffer). Detected by chemiluminescence.