abcam

Product datasheet

Anti-TPH2 antibody ab121013

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Overview

Product name	Anti-TPH2 antibody
Description	Goat polyclonal to TPH2
Host species	Goat
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Rat, Rabbit, Horse, Hamster, Cow, Dog, Pig, Cynomolgus monkey, Rhesus monkey, Gorilla, Orangutan
Immunogen	Synthetic peptide corresponding to Human TPH2 aa 1-100 (N terminal) (Cysteine residue). NP_775489.2 Database link: **Q8IWU9** Run BLAST with Run BLAST with
Positive control	WB: HEK293 lysate.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% BSA, 99% Tris buffered saline
Purity	Immunogen affinity purified
Purification notes	ab121013 is purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal

Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab121013 in the following tested applications.

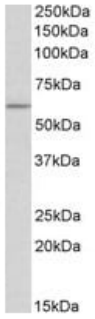
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.5 - 2 µg/ml. Detects a band of approximately 60 kDa (predicted molecular weight: 56 kDa). 1 hour primary incubation is recommended for this product.

Target

Tissue specificity	Brain specific.
Pathway	Aromatic compound metabolism; serotonin biosynthesis; serotonin from L-tryptophan: step 1/2.
Involvement in disease	Genetic variation in TPH2 may influence susceptibility to major depressive disorder (MDD) [MIM:608516]. Defects in TPH2 are the cause of susceptibility to attention deficit-hyperactivity disorder type 7 (ADHD7) [MIM:613003]. ADHD is a neurobehavioral developmental disorder and is primarily characterized by the co-existence of attentional problems and hyperactivity, with each behavior occurring infrequently alone. Note=Naturally occurring variants of TPH2 with impaired enzyme activity could cause deficiency of serotonin production and result in an increased risk of developing behavioral disorders.
Sequence similarities	Belongs to the biopterin-dependent aromatic amino acid hydroxylase family. Contains 1 ACT domain.

Images



Western blot - Anti-TPH2 antibody (ab121013)

Anti-TPH2 antibody (ab121013) at 0.5 µg/ml + HEK293 lysate in RIPA buffer at 35 µg

Predicted band size: 56 kDa

Primary incubation was 1 hour. Detected by chemiluminescence.

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