

Anti-Tryptophan Hydroxylase Antibody (Monoclonal, WH-3)
Catalog # ABO10483

Specification

Anti-Tryptophan Hydroxylase Antibody (Monoclonal, WH-3) - Product Information

Application	WB
Primary Accession	Q8CGU9
Host	Mouse
Isotype	Mouse IgG3
Reactivity	Human, Rat
Clonality	Monoclonal
Format	Lyophilized

Description

Mouse IgG monoclonal antibody for Tryptophan Hydroxylase, tryptophan hydroxylase 1; tryptophan hydroxylase 2 (TPH1; TPH2) detection. Tested with WB in Human;rat;rabbit. No cross reactivity with other proteins.

Reconstitution

Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

Anti-Tryptophan Hydroxylase Antibody (Monoclonal, WH-3) - Additional Information

Gene ID 317675

Other Names

Tryptophan 5-hydroxylase 2, 1.14.16.4, Neuronal tryptophan hydroxylase, Tryptophan 5-monooxygenase 2, Tph2, Ntph

Calculated MW

55621 MW KDa

Application Details

Western blot, 0.5-1 µg/ml, Human, rat, rabbit

Tissue Specificity

TPH1: Isoform 2 seems to be less widely expressed than isoform 1.

Protein Name

Tryptophan 5-hydroxylase 1; Tryptophan 5-hydroxylase 2

Contents

Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN₃ as preservative.

Immunogen

Recombinant rabbit tryptophan hydroxylase.

Purification

Ascites

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the bipterin-dependent aromatic amino acid hydroxylase family.

Anti-Tryptophan Hydroxylase Antibody (Monoclonal, WH-3) - Protein Information

Name Tph2

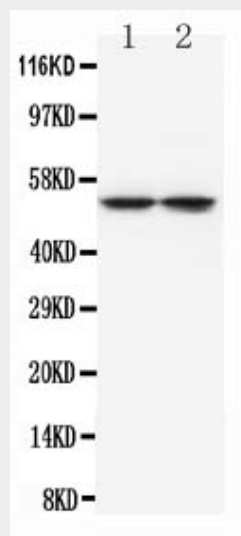
Synonyms Ntph

Anti-Tryptophan Hydroxylase Antibody (Monoclonal, WH-3) - 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](#)

Anti-Tryptophan Hydroxylase Antibody (Monoclonal, WH-3) - Images



Anti-Tryptophan Hydroxylase antibody (monoclonal), ABO10483, Western blotting Lane 1: Rat Brain Tissue Lysate Lane 2: Rat Brain Tissue Lysate

Anti-Tryptophan Hydroxylase Antibody (Monoclonal, WH-3) - Background

Tryptophan hydroxylase is the rate-limiting enzyme in the synthesis of serotonin (5-hydroxytryptamine, or 5HT). Tryptophan hydroxylase catalyzes the biotin-dependent monooxygenation of tryptophan to 5-hydroxytryptophan (5HT), which is subsequently decarboxylated to form the neurotransmitter serotonin. Human tryptophan hydroxylase (TPH) is mapped to chromosome 11p15.3-p14 by in situ hybridization.