

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

Catalog Number: MA1099

### About Tph2

Tryptophan hydroxylase is the rate-limiting enzyme in the synthesis of serotonin (5-hydroxytryptamine, or 5HT). Tryptophan hydroxylase catalyzes the bipterin-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.

### Overview

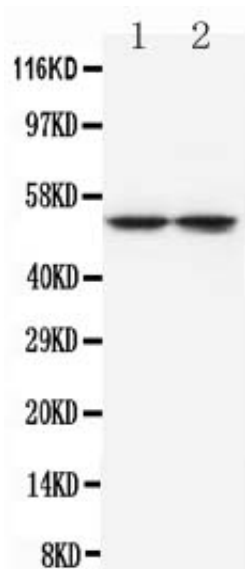
Product Name	Anti-Tryptophan Hydroxylase Antibody (Monoclonal, WH-3)
Reactive Species	Human, Rabbit, Rat
Description	Mouse IgG monoclonal antibody for Tryptophan Hydroxylase, tryptophan hydroxylase 1; tryptophan hydroxylase 2 (TPH1; TPH2) detection. Tested with WB in Human; rat; rabbit. No cross reactivity with other proteins.
Application	WB
Clonality	Monoclonal WH-3
Formulation	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg Na <sub>3</sub> N as preservative.
Storage Instructions	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.
Host	Mouse
Uniprot ID	Q8CGU9

### Technical Details

Immunogen	Recombinant rabbit tryptophan hydroxylase.
Predicted Reactive Species	Monkey

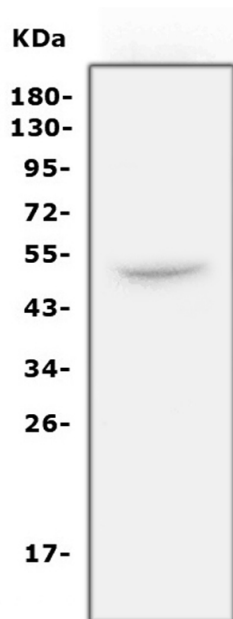
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot.
Cross Reactivity	No cross reactivity with other proteins
Isotype	Mouse IgG3
Form	Lyophilized
Concentration	Add 1ml of PBS buffer will yield a concentration of 100ug/ml.
Purification	Ascites
Suggested Dilutions	Western blot, 0.5-1µg/ml, Human, rat, rabbit
	For protocols please visit <a href="https://www.bosterbio.com/protocol-and-troubleshooting/">https://www.bosterbio.com/protocol-and-troubleshooting/</a>

## Anti-Tryptophan Hydroxylase Antibody (Monoclonal, WH-3) (MA1099) Images



Anti-Tryptophan Hydroxylase antibody (monoclonal), MA1099, Western blotting  
Lane 1: Rat Brain Tissue Lysate  
Lane 2: Rat Brain Tissue Lysate

Figure 2. Western blot analysis of Tryptophan Hydroxylase using anti-Tryptophan Hydroxylase antibody (MA1099). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The



sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: human Caco-2 whole cell lysate.

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-Tryptophan Hydroxylase antigen affinity purified monoclonal antibody (Catalog # MA1099) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for Tryptophan Hydroxylase at approximately 51KD. The expected band size for Tryptophan Hydroxylase is at 51KD.

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