TPH2 Rabbit mAb

Catalog No.: A30156

Recombinant

Basic Information

Observed MW
56 kDa

Calculated MW
56 kDa

Category
Monoclonal Antibodies

Applications
WB, IP, IF-F, IHC-P, ELISA

Cross Reactivity
Mouse, Rat

Clone No.
ARC3820

Background

This gene encodes a member of the pterin-dependent aromatic acid hydroxylase family. The encoded protein catalyzes the first and rate limiting step in the biosynthesis of serotonin, an important hormone and neurotransmitter. Mutations in this gene may be associated with psychiatric diseases such as bipolar affective disorder and major depression.

Recommended Dilutions

WB	1:2000 - 1:20000
IP	0.5 μg - 4 μg antibody for 400 μg - 600 μg extracts of whole cells
IF-F	1:500-1:3000
IHC-P	1:2000 - 1:10000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000), a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
121278

Swiss-Prot
Q8IWU9

Immunogen
This information is considered to be commercially sensitive.

Synonyms
NTPH; ADHD7

Contact

400-999-6126

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www.abclonal.com.cn

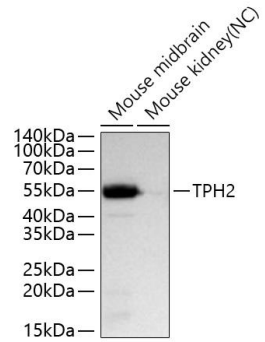
Product Information

Source	Isotype	Purity
Rabbit	IgG	Affinity purification

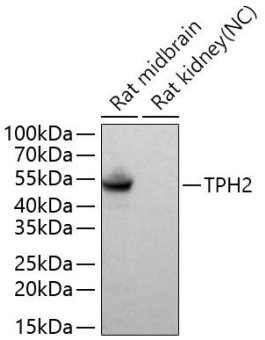
Storage

Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% sodium azide,0.05% BSA,50% glycerol,pH 7.3.

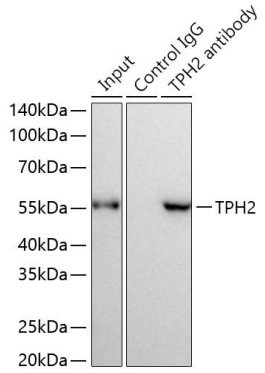
Validation Data



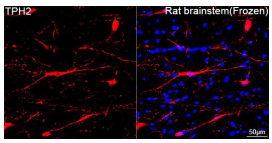
Western blot analysis of various lysates using TPH2 Rabbit mAb (A30156) at 1:5000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): Mouse kidney.
Exposure time: 45 s.



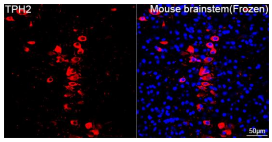
Western blot analysis of various lysates using TPH2 Rabbit mAb (A30156) at 1:20000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): Rat kidney.
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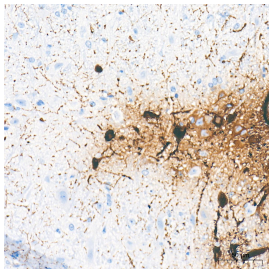
Immunoprecipitation of TPH2 from 600 µg extracts of Mouse midbrain tissue was performed using 2 µg of TPH2 Rabbit mAb (A30156). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using TPH2 Rabbit mAb (A30156) at a dilution of 1:3000.



Confocal imaging of frozen sections of Rat brainstem tissue using TPH2 Rabbit mAb (A30156, dilution 1:800) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

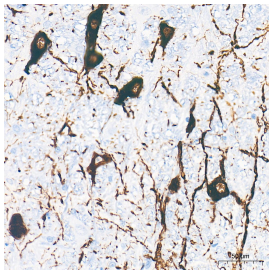


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Immunohistochemistry analysis of paraffin-embedded Mouse brainstem tissue using TPH2 Rabbit mAb (A30156) at a dilution of 1:3000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

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Immunohistochemistry analysis of paraffin-embedded Rat brainstem tissue using TPH2 Rabbit mAb (A30156) at a dilution of 1:3000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.