**Product Name: TPH1 (16G2) Rabbit Monoclonal Antibody**
**Catalog #: AMRe19152**

## Summary

| | |
|---|---|
| **Production Name** | TPH1 (16G2) Rabbit Monoclonal Antibody |
| **Description** | Rabbit Monoclonal Antibody |
| **Host** | Rabbit |
| **Application** | WB,ELISA |
| **Reactivity** | Human,Mouse,Rat |

## Performance

| | |
|---|---|
| **Conjugation** | Unconjugated |
| **Modification** | Unmodified |
| **Isotype** | IgG |
| **Clonality** | Monoclonal |
| **Form** | Liquid |
| **Storage** | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| **Buffer** | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |
| **Purification** | Affinity purification |

## Immunogen

| | |
|---|---|
| **Gene Name** | TPH1 |
| **Alternative Names** | TPH1;MGC119994;TPRH;TRPH;Tryptophan 5-hydroxylase 1; Tryptophan Hydroxylase; |
| **Gene ID** | 7166.0 |
| **SwissProt ID** | P17752. |

## Application

| | |
|---|---|
| **Dilution Ratio** | WB 1:500-1:2000 |
| **Molecular Weight** | 51kDa |

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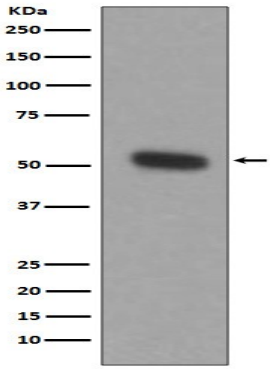
## Background

Tryptophan hydroxylase (TPH) is the rate-limiting enzyme in the biosynthesis of serotonin by converting tryptophan to 5-hydroxy-L-tryptophan. Two isoforms of TPH exist: TPH-1 is mainly expressed in the periphery, whereas the expression of TPH-2 is restricted to neuronal cells and the central nervous system. Most of the serotonin found throughout the body is synthesized by TPH-1 in enterochromaffin cells of the gastrointestinal tract. Targeted disruption of the tph1 gene results in low levels of circulating and tissue serotonin. Oxidizes L-tryptophan to 5-hydroxy-l-tryptophan in the rate- determining step of serotonin biosynthesis.

## Research Area

## Image Data




Western blot analysis of TPH1 expression in THP-1 cell lysate.

## Note

For research use only.