# Tyrosine 3-monooxygenase Antibody

Mouse Monoclonal Antibody [Clone TH/16174]

| Catalog No | Format | Size |
|---|---|---|
| 7054-MSM11-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 7054-MSM11-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 7054-MSM11-P1ABX | Purified Ab WITHOUT BSA or Azide at 1.0mg/ml | 100 ug |

| Applications | Tested Dillution | Note |
|---|---|---|
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |

## Product Details

| | |
|---|---|
| **Clone** | TH/16174 |
| **Immunogen** | Recombinant fragment (around aa 1-528) of human TH protein |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgG2c |
| **Mol. Weight of Antigen** | 58.6kDa |
| **Cellular Localization** | Axon, Cell projection, Cytoplasm, Cytoplasmic vesicle, Nucleus, Perinuclear region, Secretory vesicle, Synaptic vesicle |
| **Species Reactivity** | Human |
| **Positive Control** | Mainly expressed in the brain and adrenal glands |

**Optimal dilution for a specific application should be determined.*

## Product Images for Tyrosine 3-monooxygenase Antibody

### Specificity & Comments

Catalyzes the conversion of L-tyrosine to L-dihydroxyphenylalanine (L-Dopa), the rate-limiting step in the biosynthesis of catecholamines, dopamine, noradrenaline, and adrenaline. Uses tetrahydrobiopterin and molecular oxygen to convert tyrosine to L-Dopa (PubMed:15287903, PubMed:1680128, PubMed:17391063, PubMed:24753243, PubMed:34922205, PubMed:8528210, Ref.18). In addition to tyrosine, is able to catalyze the hydroxylation of phenylalanine and tryptophan with lower specificity (By similarity). Positively regulates the regression of retinal hyaloid vessels during postnatal development (By similarity)., Lacks catalytic activity.

### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.