Tyrosine 3-monooxygenase Antibody

Mouse Monoclonal Antibody [Clone TH/16179]

Catalog No	Format	Size
7054-MSM16-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
7054-MSM16-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
7054-MSM16-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/16179
Immunogen	Recombinant fragment (around aa 1-528) of human TH protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2 / Kappa
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.