



Tyrosine Hydroxylase

Data Sheet

Catalog Number:	MO22186	Host:	Mouse
Product Type:	Mouse Monoclonal IgG1	Species Reactivity:	Human, rat, mouse
Immunogen Sequence:	Full length human tyrosine hydroxylase as expressed in and purified E. coli	Format:	Purified antibody at 1 mg/ml in 50% glycerol plus 5mM of Sodium Azide
Entrez:	7054	UniProt:	P07101
Applications:	Immunofluorescence: 1:1,000 Immunohistochemistry: 1:1,000 Immunocytochemistry: 1:1,000 Western Blot: 1:1,000-1:2,000		

Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

Storage: Antibody can also be aliquotted and stored frozen at -20° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.

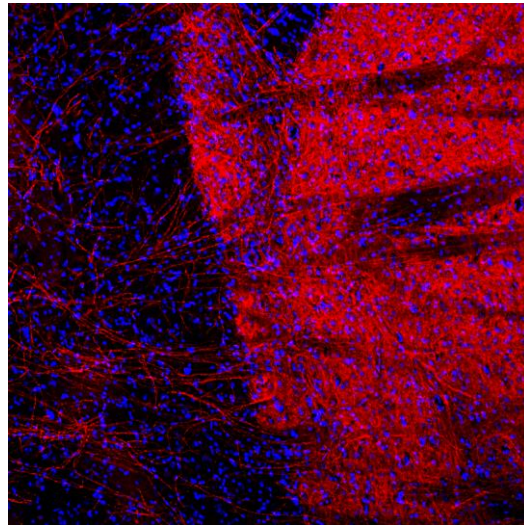
Application Notes

Description/Data:

Tyrosine Hydroxylase (TH) is a vital enzyme in the generation of L-DOPA from the amino acid tyrosine. TH expression is restricted in the brain, but expressed highly in locations where it is found. TH antibody are useful in identifying chatecholaminergic neurons.

This antibody was made against full length human recombinant human tyrosine hydroxylase.

Image: Immunofluorescent analysis of rat brain section stained with mouse antibody to tyrosine hydroxylase, MO22186, dilution 1:1,000 in red. The blue is Hoechst staining of nuclear DNA. Following transcordial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45µM, and free-floating sections were stained with the above antibodies. The MO22122 antibody stains TH expressing neuronal processes, which are particularly numerous in the striatum, at the right of the image.



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