

Tyrosine hydroxylase

Cat.No. 213 111; Monoclonal mouse antibody, 100 µg purified IgG (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg purified IgG, lyophilized. Azide was added before lyophilization. For reconstitution add 100 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1 : 500 up to 1 : 1000 (AP staining) (see remarks) IP: yes ICC: not tested yet IHC: 1 : 100 up to 1 : 500 IHC-P/FFPE: 1 : 500 up to 1 : 1000
Clone	43F2
Subtype	IgG2b (κ light chain)
Immunogen	Recombinant protein corresponding to AA 1 to 163 from rat TyrH (UniProt Id: P04177)
Epitop	Epitop: AA 1 to 163 from rat TyrH (UniProt Id: P04177)
Reactivity	Reacts with: rat (P04177), mouse (P24529). Other species not tested yet.
Specificity	Specific for tyrosine hydroxylase.
Remarks	WB: This antibody is less sensitive than the polyclonal antibodies (cat. no. 213 102 and 213 104).

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Tyrosine hydroxylase is one of the key enzymes in the synthesis pathway of catecholamines like adrenalin, noradrenalin and dopamin and is frequently used as a marker for dopaminergic neurons. This neuronal subpopulation is especially affected in Parkinson's disease.

Selected General References

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Differential regulation of the human tyrosine hydroxylase isoforms via hierarchical phosphorylation. Lehmann IT, Bobrovskaya L, Gordon SL, Dunkley PR, Dickson PW *The Journal of biological chemistry* (2006) 281(26): 17644-51.

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