

Tyrosine Hydroxylase (PTR2544) Mouse mAb

CatalogNo: YM33070

Key Features

Host Species

- Mouse

Reactivity

- Human, Mouse, Rat,

Applications

- WB, IF, ELISA

MW

- 58kD (Calculated)
- 59kD (Observed)

Isotype

- IgG1, Kappa

Recommended Dilution Ratios

WB 1:500-2000

IF 1:100-500

ELISA 1:1000-5000

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Formulation PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Basic Information

Clonality Monoclonal

Clone Number PTR2544

Immunogen Information

Immunogen Synthesized peptide derived from human Tyrosine Hydrolase AA range: 1-100

Specificity This antibody detects endogenous levels of Tyrosine Hydroxylase protein.

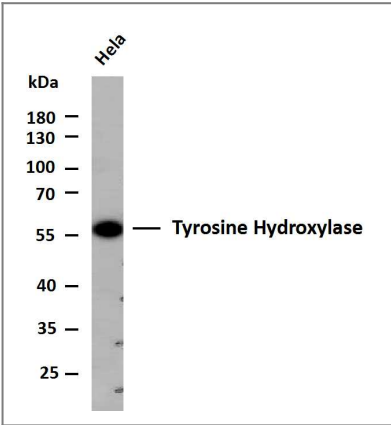
Target Information

Gene name	TH TYH		
Protein Name	Tyrosine 3-monooxygenase (Tyrosine 3-hydroxylase) (TH),Tyrosine Hydrolase		
	Organism	Gene ID	UniProt ID
	Human	7054 ;	P07101 ;
	Mouse	21823 ;	P24529 ;
	Rat	25085 ;	P04177 ;

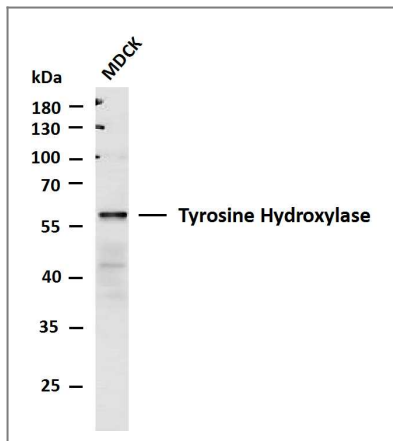
Tissue specificity Mainly expressed in the brain and adrenal glands.

Function Catalytic activity:L-tyrosine + tetrahydrobiopterin + O(2) = 3,4-dihydroxy-L-phenylalanine + 4a-hydroxytetrahydrobiopterin.,cofactor:Fe(2+) ion.,Disease:Defects in TH are the cause of dystonia DOPA-responsive autosomal recessive (ARDRD) [MIM:605407]; also known as autosomal recessive Segawa syndrome. ARDRD is a form of DOPA-responsive dystonia presenting in infancy or early childhood. Dystonia is defined by the presence of sustained involuntary muscle contractions, often leading to abnormal postures. Some cases of ARDRD present with parkinsonian symptoms in infancy. Unlike all other forms of dystonia, it is an eminently treatable condition, due to a favorable response to L-DOPA.,enzyme regulation:Phosphorylation leads to an increase in the catalytic activity.,Function:Plays an important role in the physiology of adrenergic neurons.,online information:Tyrosine hydroxylase entry,pathway:Catecholamine biosynthesis; dopamine biosynthesis; dopamine from L-tyrosine: step 1/2.,similarity:Belongs to the biopterin-dependent aromatic amino acid hydroxylase family.,tissue specificity:Mainly expressed in the brain and adrenal glands.,

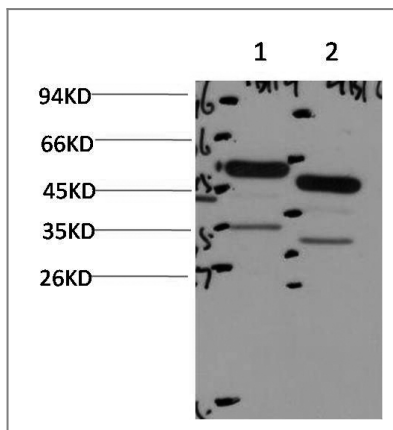
Validation Data



Whole cell lysates of HeLa were separated by 10% SDS-PAGE, and the membrane was blotted with anti-Tyrosine Hydroxylase(PTR2544) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa



Whole cell lysates of MDCK were separated by 10% SDS-PAGE, and the membrane was blotted with anti-Tyrosine Hydroxylase(PTR2544) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: MDCK



Western blot analysis of 1)PC12 Cell, 2) Mouse Brain Tissue Lysate using Tyrosine Hydrolase Mouse Monoclonal mAb diluted at 1:2,000.

Contact information

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Please scan the QR code to access additional product information:

Tyrosine Hydroxylase (PTR2544) Mouse mAb

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