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

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

Recommended Dilution Ratios

WB 1:500-2000
IF 1:100-500
ELISA 1:1000-5000

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

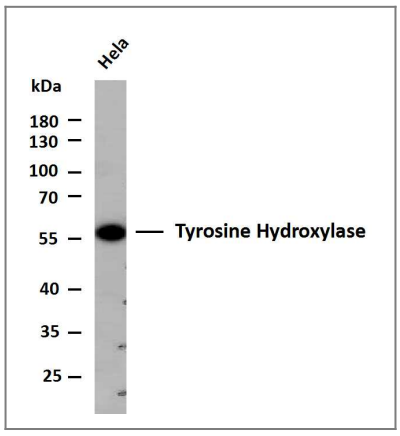
Protein Name Tyrosine 3-monooxygenase (Tyrosine 3-hydroxylase) (TH) ,Tyrosine Hydrolase

Organism	Gene ID	UniProt ID
Human	7054;	P07101;
Mouse	21823;	P24529;
Rat	25085;	P04177;

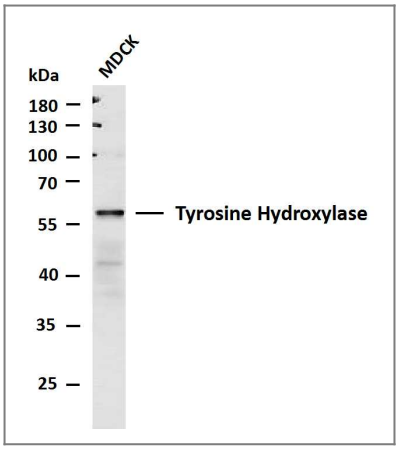
Tissue specificity Mainly expressed in the brain and adrenal glands.

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. ,

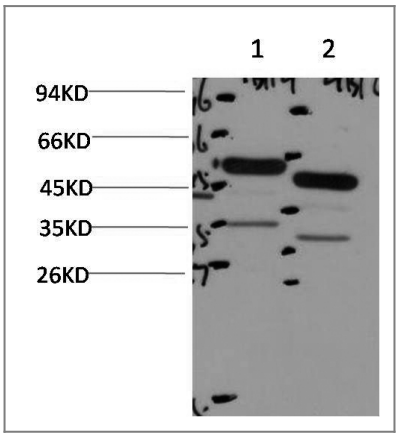
Validation Data



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 HydrolaseMouse 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**