



Catalog: OM638957

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Tyrosine Hydroxylase

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☐ 100 µl

Product profile

Product name	Tyrosine Hydroxylase
Antibody Type	Primary Antibodies
Product description	The enzyme tyrosine hydroxylase (TH), also designated tyrosine 3-monooxygenase (TY3H), catalyzes the conversion of tyrosine to L-dopa, which is the rate limiting step in the biosynthesis of catecholamines such as dopamine, adrenalin and noradrenalin. TH is thought to play a role in the pathogenesis of Parkinson's disease, which is associated with reduced dopamine levels. Two transcription factor binding sites in the proximal region of the TH gene, the TPA-responsive element (TRE) and the c-AMP responsive element (CRE), have been implicated in the complex regulation of the TH gene. TH is also known to be upregulated by the glia maturation factor (GMF), a Cdc 10/SWI6 motif-containing protein called V-1, and a variety of additional compounds.
Immunogen	Recombinant protein

Key Feature

Clonality	Polyclonal
Isotype	IgG
Host Species	Rabbit
Tested Applications	WB ,ICC ,IHC ,FC
Species Reactivity	Human Mouse Rat
Concentration	1 mg/mL.

Target Information

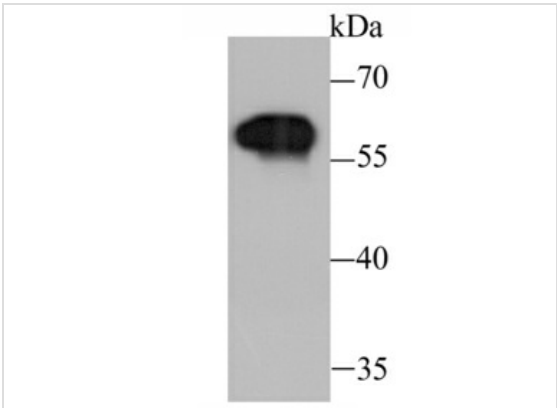
Alternative Names	Dystonia 14 antibody DYT14 antibody DYT5b antibody EC 1.14.16.2 antibody OTTHUMP00000011225 antibody OTTHUMP00000011226 antibody ple antibody Protein Pale antibody TH antibody The antibody TY3H_HUMAN antibody TYH antibody Tyrosine 3 hydroxylase antibody Tyrosine 3 monooxygenase antibody Tyrosine 3-hydroxylase antibody Tyrosine 3-monooxygenase antibody Tyrosine hydroxylase antibody
Molecular Weight (MW)	45/58 kDa

Cellular Localization Cytoplasm. Nucleus.

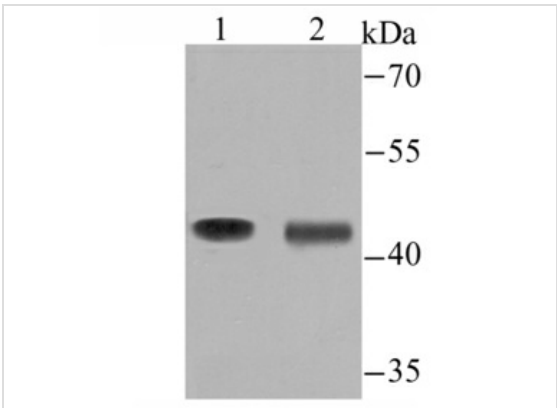
Database Links

SwissProt ID P07101
 P24529
 P04177

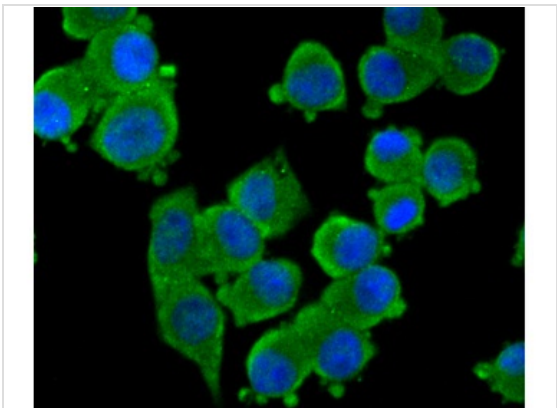
Application



Application
Fig1: Western blot analysis of Tyrosine Hydroxylase on PC-12 cell lysate using anti-Tyrosine Hydroxylase antibody at 1/1,000 dilution.

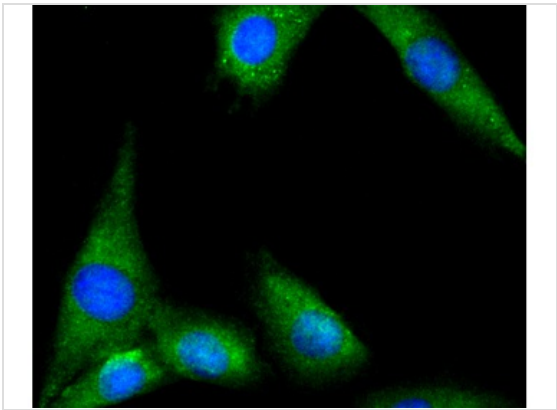


Application
Fig2: Western blot analysis of Tyrosine Hydroxylase on mouse brain tissue (1) and MCF-7 cell (2) lysate using anti-Tyrosine Hydroxylase antibody at 1/500 dilution.

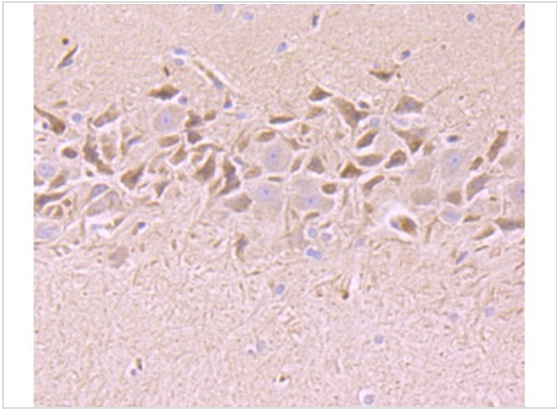


Application
Fig3: ICC staining Tyrosine Hydroxylase in N2A cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

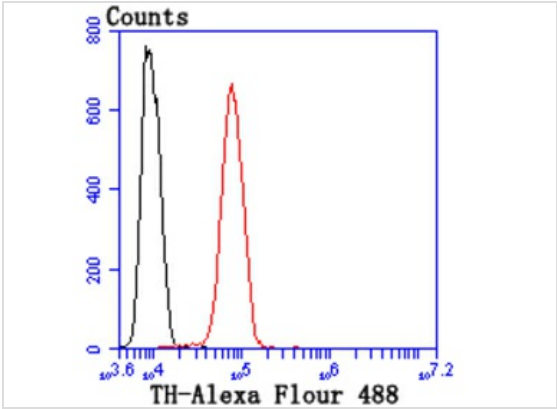
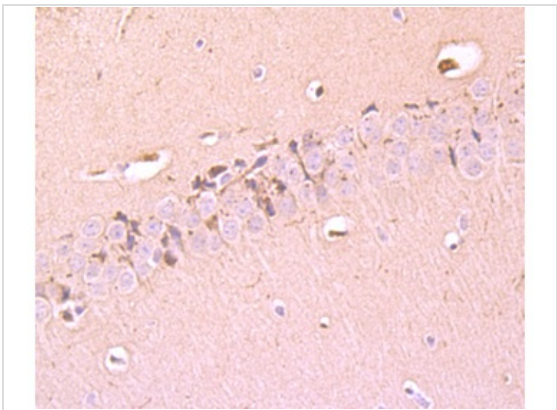
Application
Fig4: ICC staining Tyrosine Hydroxylase in SHG-44 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Application
 Fig5: Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-Tyrosine Hydroxylase antibody. Counter stained with hematoxylin.



Application
 Fig6: Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-Tyrosine Hydroxylase antibody. Counter stained with hematoxylin.



Application
 Fig7: Flow cytometric analysis of SH-SY5Y cells with Tyrosine Hydroxylase antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).

Positive Control	PC-12, mouse brain tissue, MCF-7, N2A, SHG-44, rat brain tissue, SH-SY5Y.
Application Notes	WB: 1:1,000-1:2,000 ICC: 1:50-1:200 IHC: 1:50-1:200 FC: 1:50-1:100

Additional Information

Form	Liquid
Storage Instructions	Store at +4°CAfter thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage Buffer	1* TBS (pH7.4), 0.5% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.
Note	The product is for research use only, not for use in diagnostic or therapeutic procedures.

OmnimAbs.com

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This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt
