

Tyrosine Hydroxylase Recombinant Rabbit Monoclonal Antibody (9H8L15)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Human, Mouse
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	9H8L15
Conjugate	Unconjugated
Immunogen	Protein corresponding to Human TH (aa 64-269)
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2609671

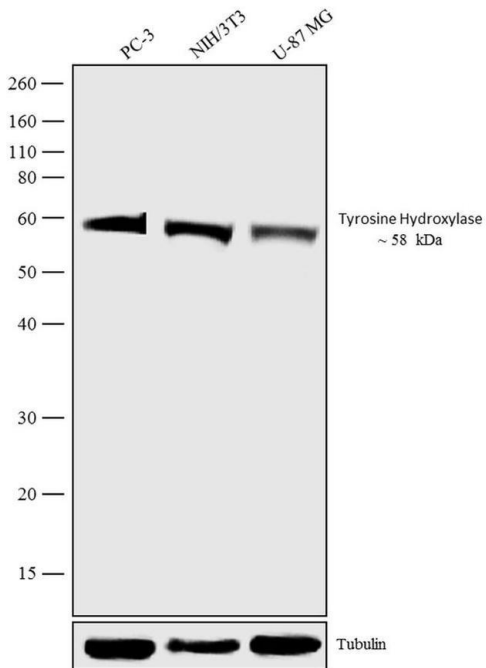
Applications	Tested Dilution	Publications
Western Blot (WB)	1- 2 µg/mL	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	Assay-dependent	-
Immunocytochemistry (ICC/IF)	2 µg/mL	1 Publication

Product Specific Information

This antibody is predicted to react with Monkey and Pig.

Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

Product Images For Tyrosine Hydroxylase Recombinant Rabbit Monoclonal Antibody (9H8L15)

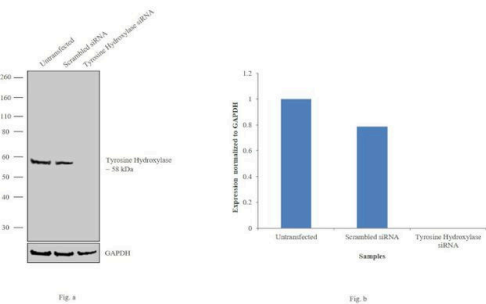


Tyrosine Hydroxylase Antibody (701949) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of PC-3 (Lane 1), NIH/3T3 (Lane 2), U-87MG (Lane 3). The blots were probed with Anti-Tyrosine Hydroxylase Recombinant Rabbit Monoclonal Antibody (Product # 701949, 1-2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 58 kDa band corresponding to Tyrosine Hydroxylase was observed. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10% Bis-Tris gel (Product # NP0301BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5% skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).

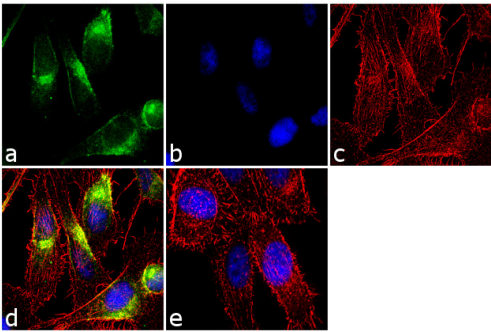
Tyrosine Hydroxylase Antibody (701949)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. PC-3 cells were transfected with Tyrosine Hydroxylase siRNA and reduction of signal was observed in Western Blot using Tyrosine Hydroxylase Antibody (9H8L15) (Product # 701949). {KD}



Tyrosine Hydroxylase Antibody (701949) in ICC/IF

Immunofluorescence was performed on fixed and permeabilized PC-3 cells for detection of TH using Anti-TH Recombinant Rabbit Monoclonal Antibody (Product # 701949, 2 µg/mL) and labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Panel a) shows representative cells that were stained for detection and localization of TH protein (green), Panel b) is stained for nuclei (blue) using SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). Panel c) represents cytoskeletal F-actin staining using Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d) is a composite image of Panels a, b and c clearly demonstrating cytoplasmic localization of RNF20. Panel e) represents control cells with no primary antibody to assess background.



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Western Blot (1)

Neurobiology of aging	Year 2021
Age-related neuroinflammation and pathology in the locus coeruleus and hippocampus: beta-adrenergic antagonists exacerbate impairment of learning and memory in aged mice.	Species Mouse
"701949 was used in Western Blotting to examine effects of age and acute beta-blocker administration on LC and hippocampus pathology, neuroinflammation and learning and memory behavior in mice."	Dilution 1:1000
Authors: Evans AK,Park HH,Saw NL,Singhal K,Ogawa G,Leib RD,Shamloo M	

Immunocytochemistry (1)

International journal of molecular sciences	Year 2023
LUHMES Cells: Phenotype Refinement and Development of an MPP ⁺ -Based Test System for Screening Antiparkinsonian Drugs.	Species Human
"701949 was used in Immunocytochemistry-immunofluorescence to develop an LCs-based MPP ⁺ PD model and propose an original panel of markers for testing functional and structural cell disorders."	Dilution 1:250
Authors: Beliakov SV,Blokhin V,Surkov SA,Ugrumov MV	

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