

Rabbit anti-Human Tyrosine Hydroxylase Polyclonal Antibody

Anti-Tyrosine Hydroxylase Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA258728	Rabbit	Human	Immunofluorescence, Immunocytochemistry, Western Blot

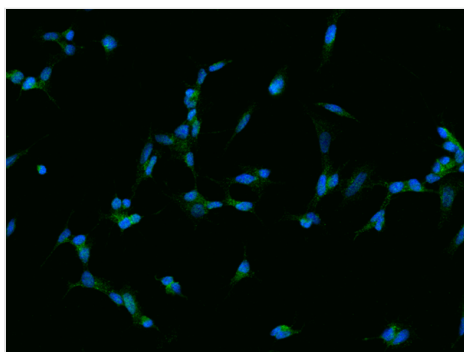
PRODUCT SYNONYMS

Tyrosine Hydroxylase; Polyclonal Antibody; Anti-Tyrosine Hydroxylase Antibody; Rabbit Polyclonal; tyrosine hydroxylase; Anti-DYT14 Antibody; Anti-DYT5b Antibody; Anti-TYH Antibody; anti-Tyrosine Hydroxylase antibody

PRODUCT SPECIFICATIONS

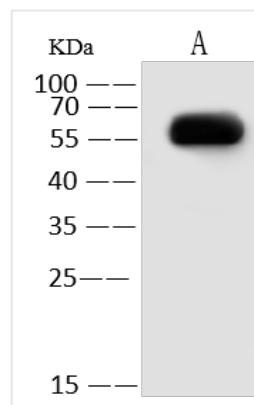
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human Tyrosine Hydroxylase
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-Tyrosine Hydroxylase antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the C-terminus of the Human Tyrosine Hydroxylase
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the C-terminus of the Human Tyrosine Hydroxylase, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of KLH-SMCCA698+KLH-SMCCA1486 in SHSY5Y cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human KLH-SMCCA698+KLH-SMCCA1486 polyclonal antibody (dilution ratio 1:100) at 4? overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Nucleus and Cytoplasm.



WB (Western Blot)

Anti-Tyrosine Hydroxylase rabbit monoclonal antibody at 1:500 dilution Lane A: PC12 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 58 kDa Observed band size: 63 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-Tyrosine Hydroxylase antibody	Tyrosine hydroxylase (TH) is a rate-limiting enzyme in catecholamine synthesis. Tyrosine hydroxylase activity is modulated by protein-protein interactions with enzymes in the same pathway or the tetrahydrobiopterin pathway, structural proteins considered to be chaperones that mediate the neuron's oxidative state, and the protein that transfers dopamine into secretory vesicles. It is phosphorylated at serine (Ser) residues Ser8, Ser19, Ser31 and Ser40 in vitro. The phosphorylation of tyrosine hydroxylase at Ser19 or Ser8 has no direct effect on tyrosine hydroxylase activity. As tyrosine hydroxylase (TH) catalyses the formation of L-DOPA, the rate-limiting step in the biosynthesis of DA, the Parkinson's disease (PD) can be considered as a TH-deficiency syndrome of the striatum. A direct pathogenetic role of TH has also been suggested, as the enzyme is a source of reactive oxygen species (ROS) in vitro and a target for radical-mediated oxidative injury. Recently, it has been demonstrated that L-DOPA is effectively oxidized by mammalian Tyrosine hydroxylase in vitro, possibly contributing to the cytotoxic effects of DOPA.
References	Daubner SC, et al. (2011) Tyrosine hydroxylase and regulation of dopamine synthesis. Arch Biochem Biophys. 508(1): 1-12.Dunkley PR, et al. (2004) Tyrosine hydroxylase phosphorylation: regulation and consequences. J Neurochem. 91(5): 1025-43.Haavik J, et al. (1998) Tyrosine hydroxylase and Parkinson's disease. Mol Neurobiol. 16(3): 285-309.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/tyrosine-hydroxylase-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/258728>