

Rabbit Tyrosine Hydroxylase Polyclonal Antibody | anti-TH antibody

Phospho-Tyrosine Hydroxylase (Ser31) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321492	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Tyrosine Hydroxylase; Polyclonal Antibody; Phospho-Tyrosine Hydroxylase (Ser31) Antibody; Dystonia 14; DYT14; DYT5b; EC 1.14.16.2; OTTHUMP00000011225; OTTHUMP00000011226; ple; Protein Pale; TH; The; TY3H_HUMAN; TYH; Tyrosine 3 hydroxylase; Tyrosine 3 monooxygenase; Tyrosine 3-hydroxylase; Tyrosine 3-monooxygenase; Tyrosine hydroxylase; anti-TH antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-Tyrosine Hydroxylase (Ser31) antibody detects endogenous levels of Tyrosine Hydroxylase only when phosphorylated at Serine 31
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	497
Applicable Applications for anti-TH antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Tyrosine Hydroxylase around the phosphorylation site of Serine 31
Tissue Specificity	Mainly expressed in the brain and adrenal glands.
Predicted Cross Reactivity	Dog
Similarity	Dog (82%)
Conjugation	Unconjugated
Epitope	Phospho Ser31
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of Phospho-Tyrosine Hydroxylase (Ser31) expression in various lysates



IF (Immunofluorescence)

AAA321492 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



IHC (Immunohistochemisry)

AAA321492 at 1/200 staining Rat brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IHC (Immunohiostchemistry)

AAA321492 at 1/200 staining Rat brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of Tyrosine Hydroxylase phosphorylation expression in UV treated 293 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-TH antibody	<p>Description: Tyrosine hydroxylase (EC 1.14.16.2) is involved in the conversion of phenylalanine to dopamine. As the rate-limiting enzyme in the synthesis of catecholamines, tyrosine hydroxylase has a key role in the physiology of adrenergic neurons.</p> <p>Function: Plays an important role in the physiology of adrenergic neurons.</p> <p>Similarity: Belongs to the bipterin-dependent aromatic amino acid hydroxylase family.</p>
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NCBI AND UNIPROT INFORMATION

NCBI GI #	88900503
NCBI GeneID	7054
NCBI Accession #	NP_000351.2
NCBI GenBank Nucleotide #	NM_000360.3
UniProt Accession #	P07101; Q0PWM2; Q0PWM3; Q15585; Q15588; Q15589; Q2M3B4; B7ZL70; B7ZL73
Molecular Weight	Observed: 60 kDa Predicted: 59 kDa
NCBI Official Full Name	tyrosine 3-monooxygenase isoform b
NCBI Official Synonym Full Names	tyrosine hydroxylase
NCBI Official Symbol	TH
NCBI Official Synonym Symbols	TYH; DYT14; DYT5b
NCBI Protein Information	tyrosine 3-monooxygenase
UniProt Protein Name	Tyrosine 3-monooxygenase

UniProt Gene Name	TH
UniProt Synonym Gene Names	TYH; TH

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-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321492>