

Anti-Tyrosine Hydroxylase Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

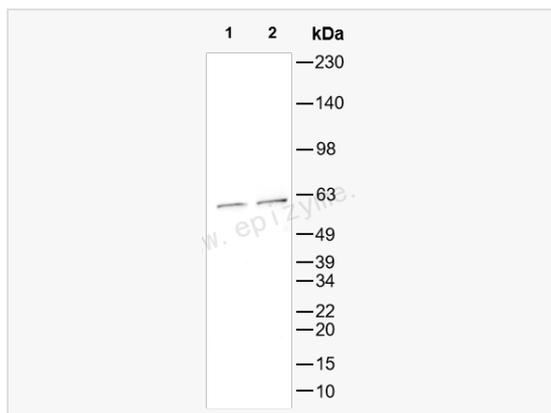
Catalog # R010523

Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	57K66L92
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Tyrosine Hydroxylase
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Tyrosine Hydroxylase Rabbit mAb [57K66L92] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	DYT14; DYT5b; ple; Protein Pale; c; The; TYH; Tyrosine 3 hydroxylase; Tyrosine 3 monooxygenase; Tyk2; TY3H_HUMAN; Tyrosine 3-monooxygenase; Tyrosine 3-hydroxylase; TH.
Calculated MW	Calculated MW: 58 kDa; Observed MW: 58 kDa
Uniprot ID	P07101
Gene ID	7054
Background	The protein encoded by this gene is involved in the conversion of tyrosine to dopamine. It is the rate-limiting enzyme in the synthesis of catecholamines, hence plays a key role in the physiology of adrenergic neurons. Mutations in this gene have been associated with autosomal recessive Segawa syndrome. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Jul 2008]
Cellular Location	Cytoplasm Perinuclear region Nucleus Cell projection Axon Cytoplasm Cytoplasmic vesicle Secretory vesicle Synaptic vesicle When phosphorylated at Ser-19 shows a nuclear distribution and when phosphorylated at Ser-31 as well at Ser-40 shows a cytosolic distribution (By similarity). Expressed in dopaminergic axons and axon terminals.
Tissue Location	Mainly expressed in the brain and adrenal glands.



Western Blot - Anti-Tyrosine Hydroxylase Rabbit mAb [57K66L92]

All lanes: R010523 at 1:2,000 dilution

Lane 1: Mouse brain whole tissue lysates

Lane 2: Rat brain whole tissue lysates

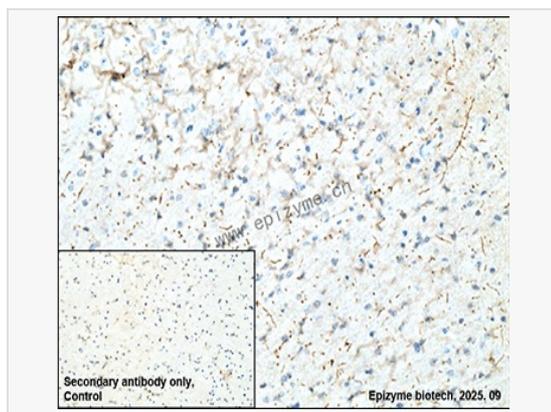
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 58 kDa

Observed band size: 58 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Tyrosine Hydroxylase Rabbit mAb [57K66L92]

Sample: Paraformaldehyde-fixed, paraffin embedded rat brain tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R010523 at 1:200 dilution

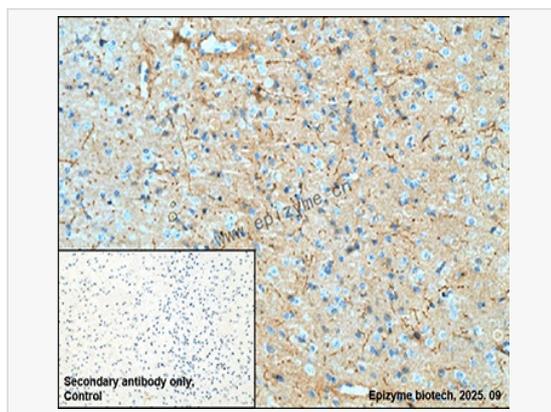
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Tyrosine Hydroxylase Rabbit mAb [57K66L92]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse brain tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R010523 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.