bs-0016R **[Primary Antibody]**

Tyrosine Hydroxylase Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 7054 **SWISS:** P07101

Target: Tyrosine Hydroxylase

Immunogen: KLH conjugated synthetic peptide derived from human TH: 101-165/528.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: bs-0016P is one synthetic peptide derived from human TH. 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]

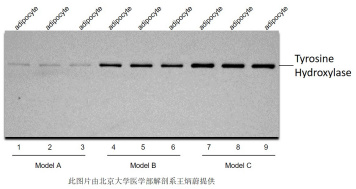
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Mouse, Rat

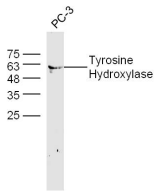
Predicted MW.: 60 kDa

Subcellular Location: Cell membrane ,Cytoplasm

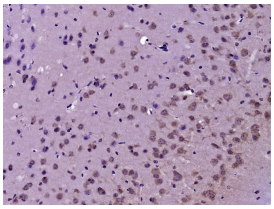
VALIDATION IMAGES



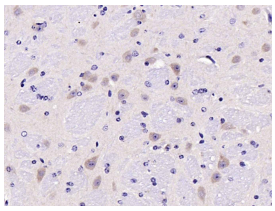
Sample: adipocyte (mouse) Lysate at 5-10 ug model A, model B, model C are from different mice; Primary: Anti-Tyrosine Hydroxylase(bs-0016R) at 1/2000 dilution Predicted band size: 60 kD Observed band size: 60 kD



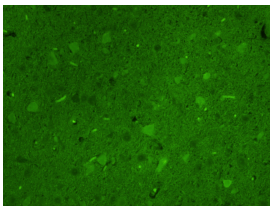
Sample: PC-3 (Mouse) Lysate at 30 ug Primary: Anti-Tyrosine Hydroxylase (bs-0016R) at 1:300 dilution; Secondary: HRP conjugated Goat-Anti-rabbit IgG(bs-0295G-HRP) at 1:5000 dilution; Predicted band size:60 kD Observed band size:60 kD



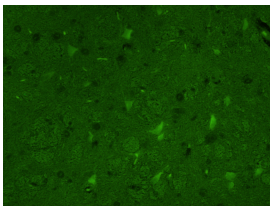
Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Tyrosine Hydroxylase) Polyclonal Antibody, Unconjugated (bs-0016R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody

incubation with (Tyrosine Hydroxylase) Polyclonal Antibody, Unconjugated (bs-0016R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

incubation with (Tyrosine Hydroxylase) Polyclonal Antibody, Unconjugated (bs-0016R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (bs-0295G-FITC) for 90 minutes, and DAPI for nuclei staining.

incubation with (Tyrosine Hydroxylase) Polyclonal Antibody, Unconjugated (bs-0016R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (bs-0295G-FITC) for 90 minutes, and DAPI for nuclei staining.

SELECTED CITATIONS

- **[IF=14.612]** Na Zhou. et al. Specific Fluorescent Probe Based on “Protect–Deprotect” To Visualize the Norepinephrine Signaling Pathway and Drug Intervention Tracers. J Am Chem Soc. 2020;142(41):17751–17755 IF ;Human. 33000941
- **[IF=15.1]** Ruiqi Wu. et al. Ultrasound triggered local sequential reactive oxygen species and nitric oxide release for enhanced cerasomal drug delivery. CHEM ENG J. 2024 Mar;:150134 IF ;Mouse. 10.1016/j.cej.2024.150134
- **[IF=5.811]** Lang Xiu-Yuan. et al. Coeloglossum viride Var. Bracteatum Extract Attenuates MPTP-Induced Neurotoxicity in vivo by Restoring BDNF-TrkB and FGF2-Akt Signaling Axis and Inhibiting RIP1-Driven Inflammation. FRONT PHARMACOL. 2022 Apr;0:1571 WB ;Mouse. 35571135
- **[IF=6.35]** Yue Y et al. Noradrenaline-Specific, Efficient Visualization in Brain Tissue Triggered by Unique Cascade Nucleophilic Substitution. Anal Chem. 2019 Feb 5;91(3):2255-2259. IF ;Mouse. 30592201
- **[IF=5.6]** Lu Yang. et al. Berberine attenuates depression-like behavior by modulating the hippocampal NLRP3 ubiquitination signaling pathway through Trim65. INT IMMUNOPHARMACOL. 2023 Oct;123:110808 WB ;Mouse. 37595491