SunLong Biotech Co.,LTD
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Rabbit Anti-Tyrosine Hydroxylase antibody

SL0016R

Product Name	Tyrosine Hydroxylase
Chinese Name	酪氨酸羟化酶抗体
Alias	DYT14; DYT5b; ple; Protein Pale; c; The; TYH; Tyrosine 3 hydroxylase; Tyrosine 3 monooxyg TY3H_HUMAN; Tyrosine 3-monooxygenase; Tyrosine 3-hydroxylase; TH.
Research Area	Tumour immunology Neurobiology Signal transduction The new supersedes the old
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse, Rat,
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 （Paraffin sections n WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 not yet tested in other appl optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	60kDa
Cellular localization	cytoplasmic The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human TH: 101-165/528
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	Mouse,Rat1M TBS(pH7.4) with 1% BSA, Mouse,Rat3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or di
PubMed	PubMed
Product Detail	The protein encoded by this gene is involved in the conversion of tyrosine to dopamine. It is the ra the synthesis of catecholamines, hence plays a key role in the physiology of adrenergic neurons. have been associated with autosomal recessive Segawa syndrome. Alternatively spliced transcri

different isoforms have been noted for this gene. [provided by RefSeq, Jul 2008]

Function:
Plays an important role in the physiology of adrenergic neurons.

Tissue Specificity:
Mainly expressed in the brain and adrenal glands.

DISEASE:
Defects in TH are the cause of Segawa syndrome autosomal recessive (ARSEGS) [MIM:605407 DOPA-responsive dystonia presenting in infancy or early childhood. Dystonia is defined by the involuntary muscle contractions, often leading to abnormal postures. Some cases present with pa in infancy. Unlike all other forms of dystonia, it is an eminently treatable condition, due to a fav L-DOPA.
Note=May play a role in the pathogenesis of Parkinson disease (PD). A genome-wide copy num has identified a 34 kilobase deletion over the TH gene in a PD patient but not in any controls.

Similarity:
Belongs to the biopterin-dependent aromatic amino acid hydroxylase family.

SWISS:
P07101

Gene ID:
7054

Database links:

Entrez Gene: 7054 Human

Entrez Gene: 21823 Mouse

Entrez Gene: 25085 Rat

Omim: 191290 Human

SwissProt: P07101 Human

SwissProt: P24529 Mouse

SwissProt: P04177 Rat

Unigene: 435609 Human

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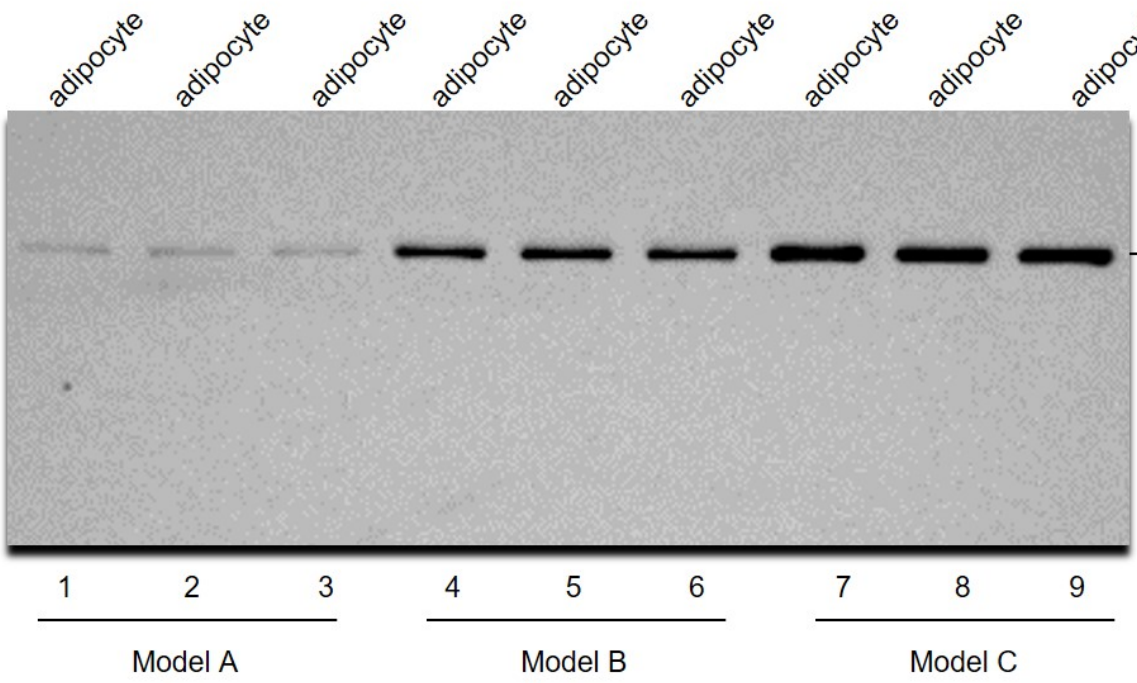
Unigene: 1292 Mouse

Unigene: 11082 Rat

神经细胞 Maker
酪氨酸羟化酶（TH）是儿茶酚胺类神经递质即多巴胺、去甲肾上腺素、肾上腺素生物合成
它以四氢生物喋呤啶(BH4)为辅酶，催化酪氨酸的羟化而生成多巴(DOPA)。
已知在患帕金森病(Parkinson disease,PD)时，脑内多巴胺(dopamine,DA)的减少与此酶活性
PD 模型动物来说，若将 TH 基因植入脑内，便可以提高脑内 DA 水平而达到基因治疗目

Product Picture



此图片由北京大学医学部解剖系王炳蔚提供

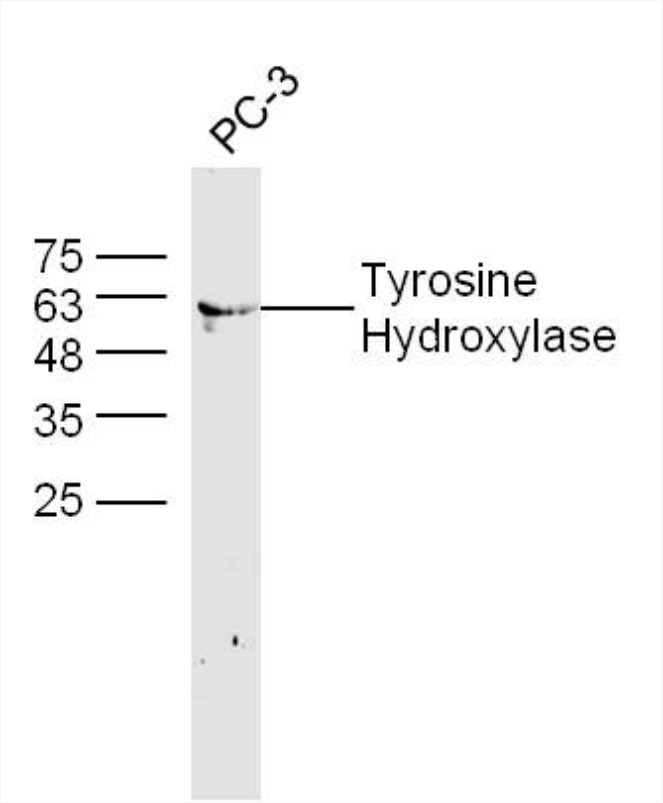
Sample: adipocyte (mouse) Lysate at 5-10 ug

model A, model B, model C are from different mice; Primary: Anti-Tyrosine Hydroxylase(SL

dilution

Predicted band size: 60 kD

Observed band size: 60 kD



Sample: PC-3 (Mouse) Lysate at 30 ug

Primary: Anti-Tyrosine Hydroxylase (SL0016R) at 1:300 dilution;

Secondary: HRP conjugated Goat-Anti-rabbit IgG(SL0295G-HRP) at 1:5000 dilution;

Predicted band size:60 kD

Observed band size:60 kD

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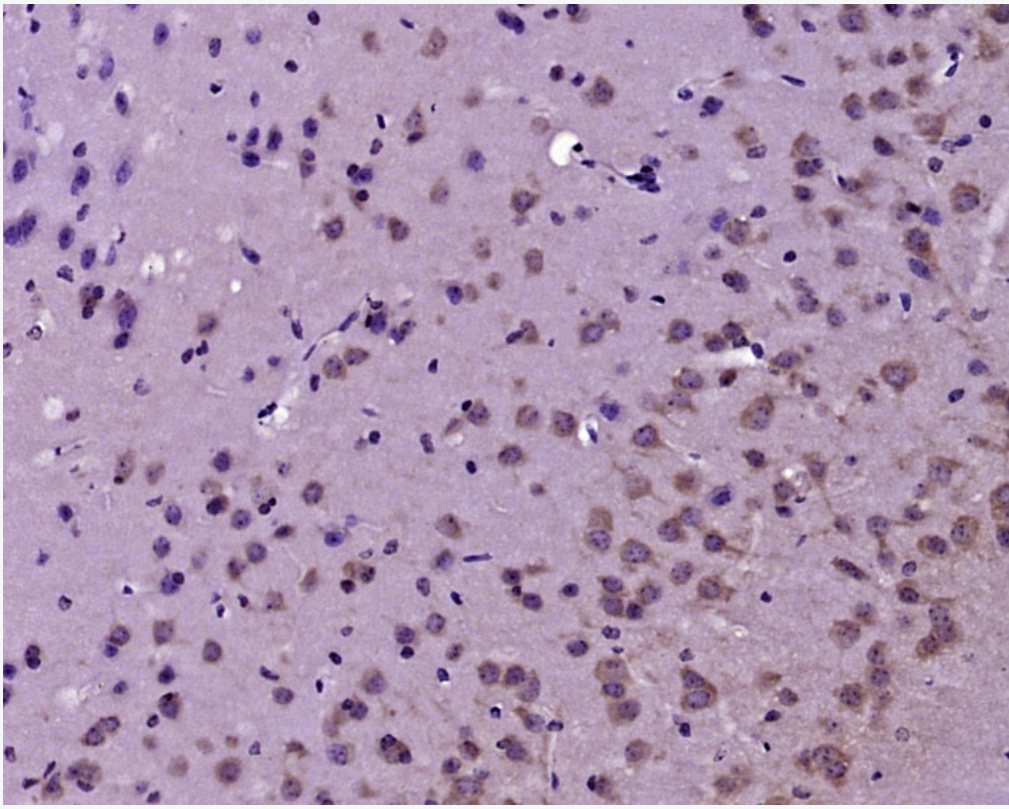

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in so
(pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; B
(normal goat serum) at 37°C for 30min; Antibody incubation with (Tyrosine Hydroxylase) Po
Unconjugated (SL0016R) at 1:400 overnight at 4°C, followed by operating according to SP K
instructionsand DAB staining.

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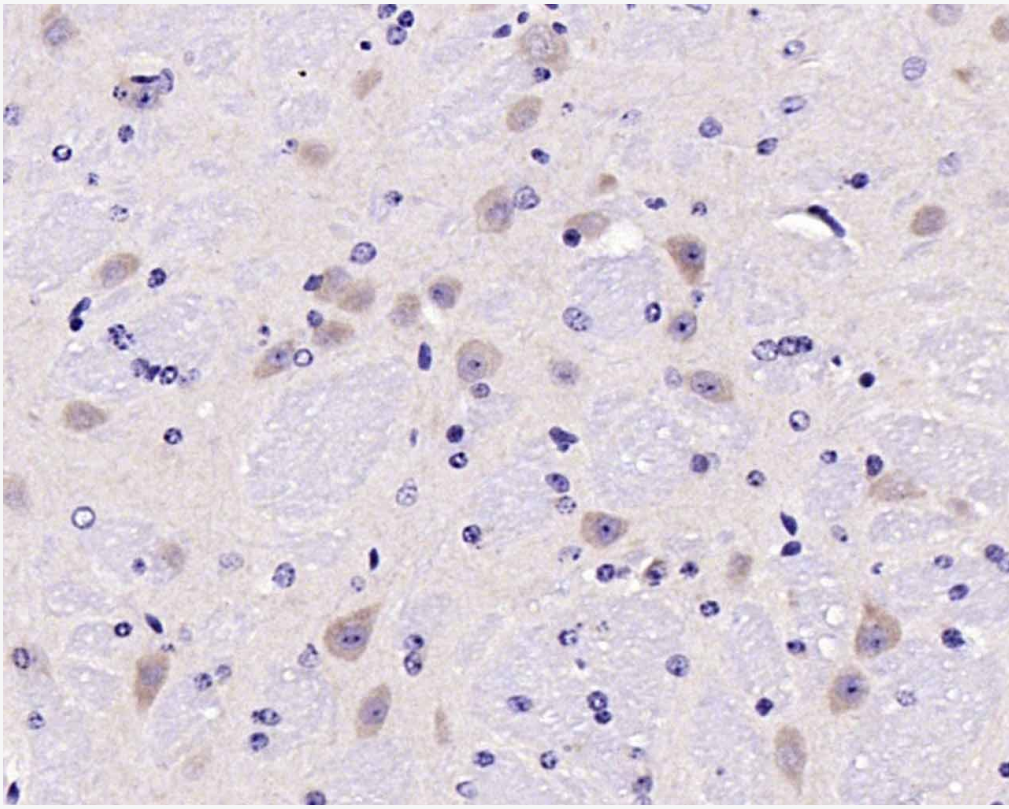

Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in soc
(pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; B
(normal goat serum) at 37°C for 30min; Antibody incubation with (Tyrosine Hydroxylase) Po
Unconjugated (SL0016R) at 1:200 overnight at 4°C, followed by operating according to SP K
instructionsand DAB staining.

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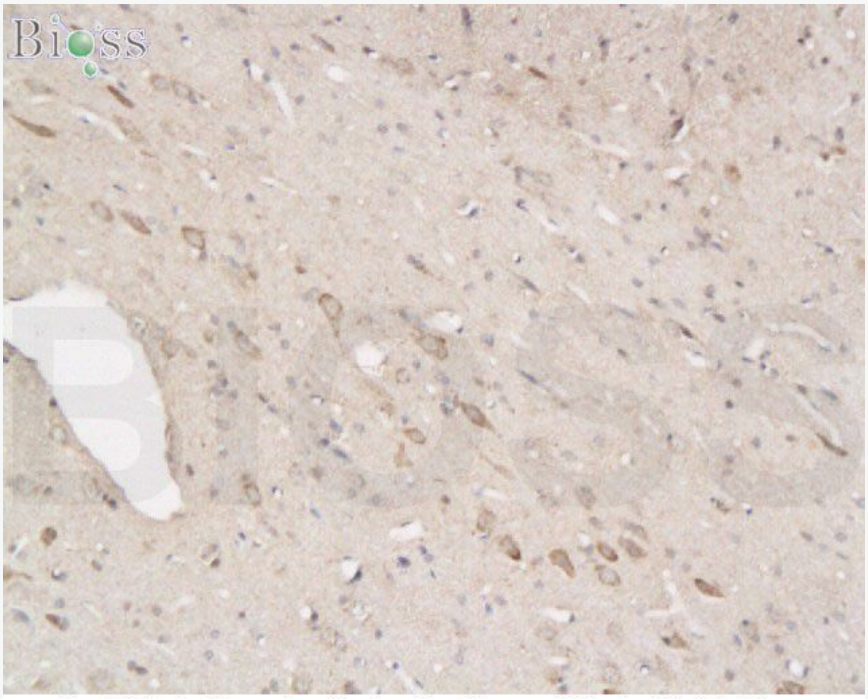

bs-0016R Anti-Tyrosine Hydroxylase(Neuronal Marker)/Tyk2/TYH

Formalin-fixed and paraffin-embedded rat brain tissue(Snr) labeled with Rabbit Anti-Tyrosine Hydroxylase(TH) Polyclonal Antibody, Unconjugated(bs-0016R) at 1:200 followed by conjugation to the secondary antibody and DAB staining

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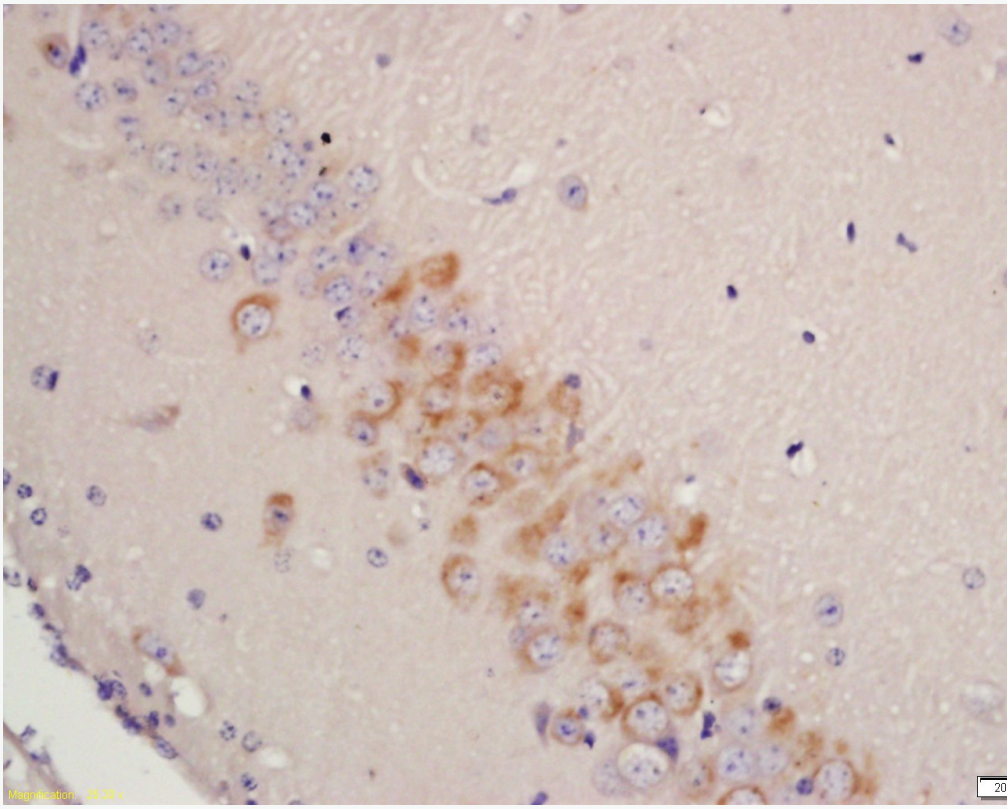

Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (Mouse,Rat1M, pH 6.0), Boiling bathing for 15min; Block e

peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005)

Incubation: Anti-Tyrosine Hydroxylase Polyclonal Antibody, Unconjugated(SL0016R) 1:200

followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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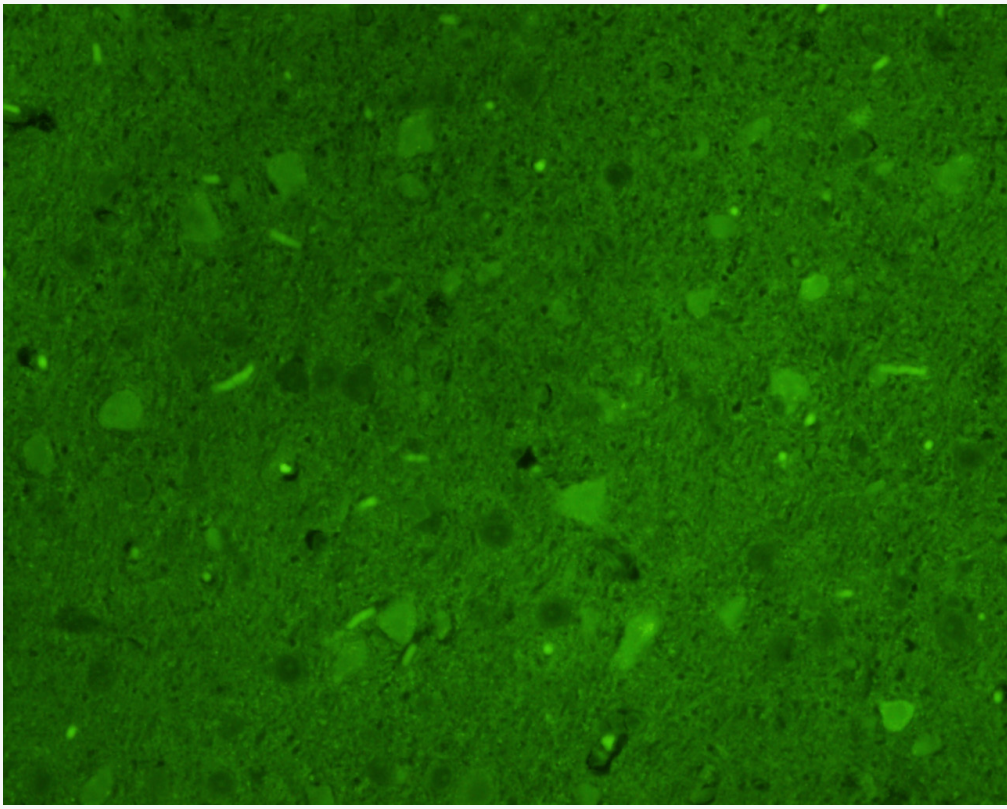

Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodiu
(pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; B
(normal goat serum) at 37°C for 30min; Antibody incubation with (Tyrosine Hydroxylase) Po
Unconjugated (SL0016R) at 1:400 overnight at 4°C, followed by a conjugated secondary antib
(SL0295G-FITC) for 90 minutes, and DAPI for nuclei staining.

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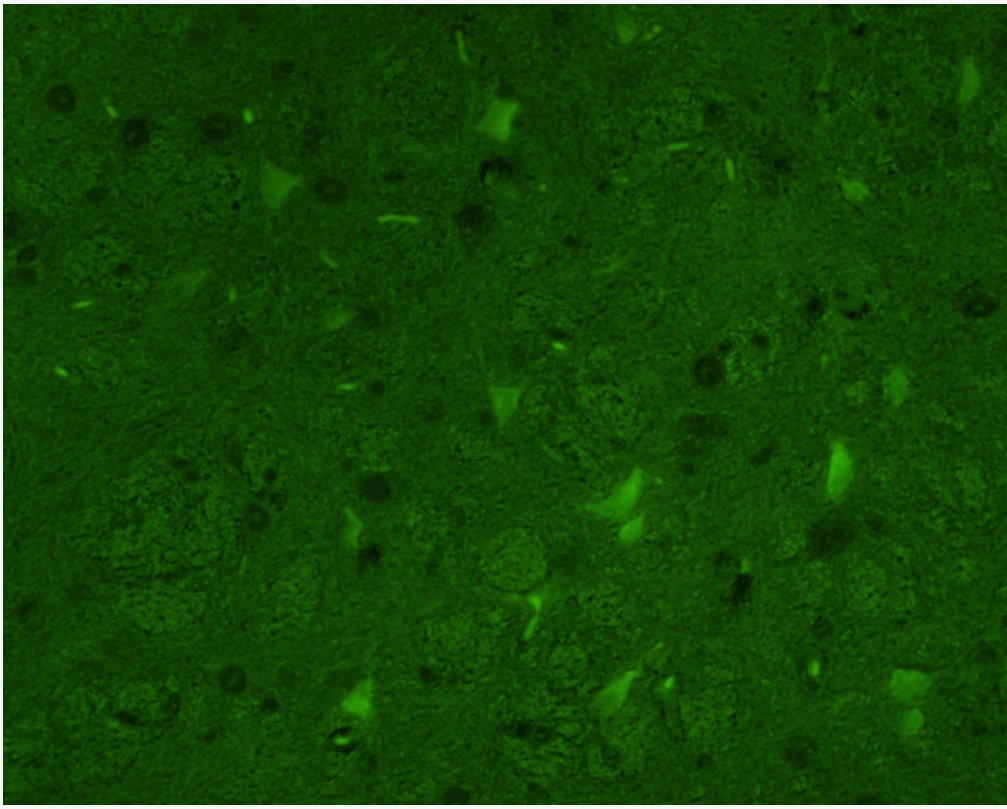

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in so
(pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; B
(normal goat serum) at 37°C for 30min; Antibody incubation with (Tyrosine Hydroxylase) Po
Unconjugated (SL0016R) at 1:400 overnight at 4°C, followed by a conjugated secondary antib
(SL0295G-FITC) for 90 minutes, and DAPI for nuclei staining.