

# DBH Rabbit mAb

Catalog No.: A28186 **Recombinant**

## Basic Information

### Observed MW

75-80 kDa

### Calculated MW

69 kDa

### Category

Primary antibody

### Applications

WB,IP,IF/ICC,IF-P,IHC-P,ELISA

### Cross-Reactivity

Human, Mouse

### CloneNo number

ARC76773

## Recommended Dilutions

**WB** 1:5000 - 1:20000

**IP** 0.5µg-4µg antibody for  
500µg-700µg extracts of  
whole cells

**IF/ICC** 1:200 - 1:600

**IF-P** 1:200 - 1:600

**IHC-P** 1:2000 - 1:8000

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions ( $\geq 1:10000$ ) a sequential dilution method is strongly recommended to ensure measurement accuracy.

## Background

The protein encoded by this gene is an oxidoreductase belonging to the copper type II, ascorbate-dependent monooxygenase family. The encoded protein, expressed in neurosecretory vesicles and chromaffin granules of the adrenal medulla, catalyzes the conversion of dopamine to norepinephrine, which functions as both a hormone and as the main neurotransmitter of the sympathetic nervous system. The enzyme encoded by this gene exists in both soluble and membrane-bound forms, depending on the absence or presence, respectively, of a signal peptide. Mutations in this gene cause dopamine beta-hydroxylase deficiency in human patients, characterized by deficits in autonomic and cardiovascular function, including hypotension and ptosis. Polymorphisms in this gene may play a role in a variety of psychiatric disorders.

## Immunogen Information

### Gene ID

1621

### Swiss Prot

P09172

### Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### Synonyms

DBM; ORTHYP1

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

## Contact

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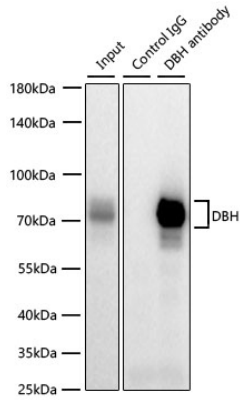
 | 400-999-6126

 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

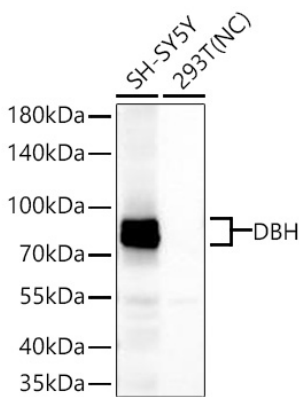
 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

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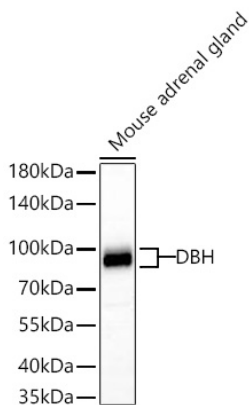
## Validation Data



Immunoprecipitation of DBH from 600 µg extracts of SH-SY5Y cells was performed using 2 µg of DBH Rabbit mAb (A28186). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1× Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using DBH Rabbit mAb (A28186) at a dilution of 1:5000.



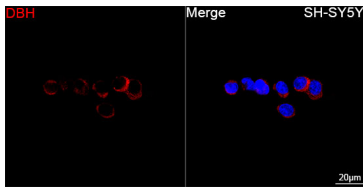
Western blot analysis of various lysates using DBH Rabbit mAb (A28186) at 1:5000 dilution incubated overnight at 4°C.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25 µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Negative control (NC): 293T.  
Exposure time: 10 s.



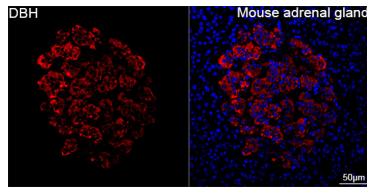
Western blot analysis of lysates from Mouse adrenal gland using DBH Rabbit mAb (A28186) at 1:5000 dilution incubated overnight at 4°C.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25 µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 20 s.

## Validation Data

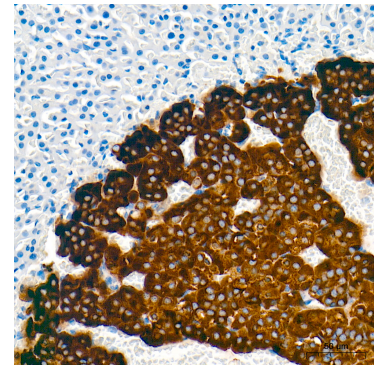
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Confocal imaging of SH-SY5Y cells using DBH Rabbit mAb (A28186, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of paraffin-embedded Mouse adrenal gland tissue using DBH Rabbit mAb (A28186, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Immunohistochemistry analysis of paraffin-embedded Mouse adrenal gland tissue using DBH Rabbit mAb (A28186) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.