

# Product datasheet

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# ARG42043 anti-Dopamine beta Hydroxylase antibody

Package: 100 μl Store at: -20°C

## **Summary**

Product Description Rabbit Polyclonal antibody recognizes Dopamine beta Hydroxylase

Tested Reactivity Hu, Ms, Rat

Tested Application ICC/IF, WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name Dopamine beta Hydroxylase

Species Human

Immunogen KLH-conjugated synthetic peptide between aa. 27-56 of Human Dopamine beta Hydroxylase.

Conjugation Un-conjugated

Alternate Names EC 1.14.17.1; DBM; Dopamine beta-monooxygenase; Dopamine beta-hydroxylase

### **Application Instructions**

Application table	Application	Dilution
	ICC/IF	1:25
	WB	1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Rat adrenal gland	
Observed Size	~ 75 kDa	

### **Properties**

Form Liquid

**Purification** Purification with Protein A and immunogen peptide.

Buffer PBS and 0.09% (W/V) Sodium azide.

Preservative 0.09% (W/V) Sodium azide

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

#### Bioinformation

Gene Symbol DBH

Gene Full Name dopamine beta-hydroxylase (dopamine beta-monooxygenase)

Background The protein encoded by this gene is an oxidoreductase belonging to the copper type II, ascorbate-

dependent monooxygenase family. It is present in the synaptic vesicles of postganglionic sympathetic neurons and converts dopamine to norepinephrine. It exists in both soluble and membrane-bound forms, depending on the absence or presence, respectively, of a signal peptide. [provided by RefSeq, Jul

2008]

Function Conversion of dopamine to noradrenaline. [UniProt]

Calculated Mw 69 kDa

PTM N-glycosylated.

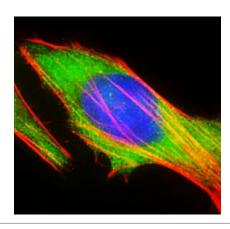
Proteolytic cleavage after the membrane-anchor leads to the release of the soluble form. [UniProt]

Cellular Localization Soluble dopamine beta-hydroxylase: Cytoplasmic vesicle, secretory vesicle lumen. Cytoplasmic vesicle,

secretory vesicle, chromaffin granule lumen. Secreted. Cytoplasmic vesicle, secretory vesicle

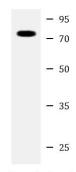
membrane; Single-pass type II membrane protein. Cytoplasmic vesicle, secretory vesicle, chromaffin granule membrane; Single-pass type II membrane protein. [UniProt]

#### **Images**



#### ARG42043 anti-Dopamine beta Hydroxylase antibody ICC/IF image

Immunofluorescence: 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa cells stained with ARG42043 anti-Dopamine beta Hydroxylase antibody (green) at 1:25 dilution. Dylight® 554 Phalloidin (red) for cytoplasmic actin staining. DAPI (blue) for nuclear staining.



Rat adrenal gland

#### ARG42043 anti-Dopamine beta Hydroxylase antibody WB image

Western blot: 20  $\mu g$  of Rat adrenal gland lysate stained with ARG42043 anti-Dopamine beta Hydroxylase antibody at 1:2000 dilution.