

For Research Use Only

# ODC1 Polyclonal antibody

Catalog Number: 17003-1-AP

Featured Product

10 Publications



## Basic Information

<b>Catalog Number:</b> 17003-1-AP	<b>GenBank Accession Number:</b> BC025296	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 233 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 4953	<b>Recommended Dilutions:</b> WB 1:200-1:1000 IHC 1:20-1:200 IF 1:10-1:100
<b>Source:</b> Rabbit	<b>Full Name:</b> ornithine decarboxylase 1	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 461 aa, 51 kDa	
<b>Immunogen Catalog Number:</b> AG10699	<b>Observed MW:</b> 51 kDa	

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Cited Applications:

IHC, WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : rat thymus tissue, mouse thymus tissue

IHC : human prostate hyperplasia tissue, human placenta tissue, human prostate cancer tissue

IF : HepG2 cells,

## Background Information

Ornithine decarboxylase (ODC) is also named as ODC1 and belongs to the Orn/Lys/Arg decarboxylase class-II family. It catalyzes the conversion of ornithine to putrescine, the first step and a major site of regulation of polyamine biosynthesis. The level of ODC is known to be controlled at several sites, namely transcription, translation, and enzyme degradation. Polyamines can stimulate the degradation of ODC as a type of negative feedback control (PMID:8486633). This protein can be phosphorylated in vivo (PMID:8798774). ODC1 can form a homodimer and only the dimer is catalytically active, as the active sites are constructed of residues from both monomers (PMID: 10623504). The molecular mass of ODC1 is 51 kDa, and the homodimer is 106 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Sang Pil Yoon	30310711	Anat Cell Biol	WB
Jinu Kim	28914418	Arch Pharm Res	WB
Masahiro Sekiguchi	32656360	NPJ Precis Oncol	IHC

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

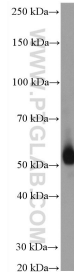
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

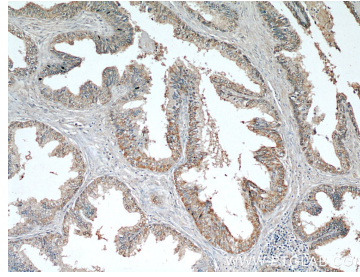
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

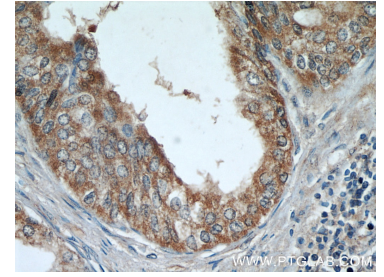
## Selected Validation Data



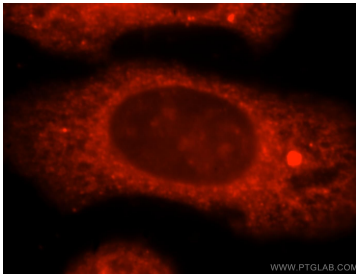
rat thymus tissue were subjected to SDS PAGE followed by western blot with 17003-1-AP (ODC1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate hyperplasia using 17003-1-AP (ODC1 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human prostate hyperplasia using 17003-1-AP (ODC1 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HepG2 cells, using ODC1 antibody 17003-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).