

For Research Use Only

# ODC1 Polyclonal antibody

Catalog Number: 28728-1-AP **13 Publications**



## Basic Information

<b>Catalog Number:</b> 28728-1-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 1:1000-1:4000 IF 1:200-1:800
<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> AG29751	<b>Observed MW:</b> 51 kDa	

## Applications

<b>Tested Applications:</b> IF, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF, IHC, WB	<b>WB :</b> HeLa cells, mouse thymus tissue, HepG2 cells, LNCaP cells
<b>Species Specificity:</b> Human, mouse	<b>IF :</b> LNCaP cells,
<b>Cited Species:</b> human, rat, mouse, pig	

## 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
Takeshi Uemura	32995657	Heliyon	WB
Yanrong Zhou	33002680	Vet Microbiol	WB
Zhirui Zeng	33244237	Onco Targets Ther	WB

## Storage

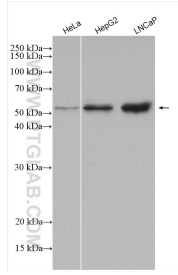
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

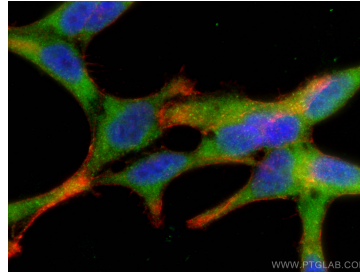
For technical support and original validation data for this product please contact:  
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 28728-1-AP (ODC1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed LNCaP cells using ODC1 antibody (28728-1-AP) at dilution of 1:400 and Coralite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).