For Research Use Only

ODC1 Polyclonal antibody

Catalog Number:28728-1-AP 16 Publications

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Basic Information

Catalog Number:
28728-1-AP

Size:
150ul , Concentration: 500 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG29751

GenBank Accession Number:
BC025296

GeneID (NCBI):
4953

UNIPROT ID:
P11926

Full Name:
ornithine decarboxylase 1

Calculated MW:
461 aa, 51 kDa

Observed MW:
51 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:4000
IHC 1:200-1:800
IF/ICC 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse

Cited Species:
human, mouse, rat, 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 : HeLa cells, mouse thymus tissue, HepG2 cells, LNCaP cells

IHC : human skin cancer tissue,

IF/ICC : LNCaP 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
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:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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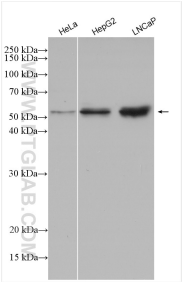
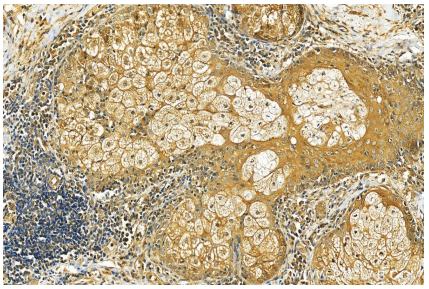
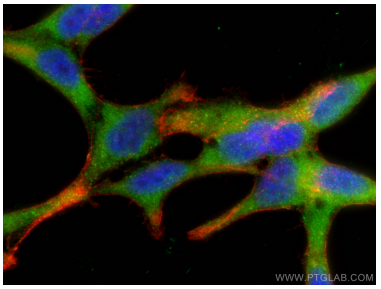
Selected Validation Data



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.



Immunohistochemical analysis of paraffin-embedded skin cancer slide using 28728-1-AP (ODC1 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).