

For Research Use Only

# OVCA1 Polyclonal antibody

Catalog Number: 20112-1-AP



## Basic Information

<b>Catalog Number:</b> 20112-1-AP	<b>GenBank Accession Number:</b> BC003099	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 170 ug/ml by Nanodrop and 133 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 1801	<b>Recommended Dilutions:</b> WB 1:500-1:1000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9BZG8	<b>IHC 1:50-1:500</b>
<b>Isotype:</b> IgG	<b>Full Name:</b> DPH1 homolog (S. cerevisiae)	<b>IF/ICC 1:20-1:200</b>
<b>Immunogen Catalog Number:</b> AG13910	<b>Calculated MW:</b> 489 aa, 52 kDa	
	<b>Observed MW:</b> 40-60 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human	<b>WB :</b> HeLa cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> human ovary cancer tissue,
	<b>IF/ICC :</b> HeLa cells,

## Background Information

OVCA1, also named as DPH1, is an evolutionarily conserved gene, indicative of a fundamental biological role in a variety of species. In humans, OVCA1 was initially mapped within the deletion region of 17p13.3 involved in early ovarian cancer (PMID: 8564979). Ovca1-null mice, mainly addressed its tumor suppressive role and potential cooperative role in modifying p53-deficient tumorigenesis (PMID: 14744934). OVCA1 acts as a component of an enzyme complex with DPH2, DPH3 and DPH4 that functionally catalyzes the first step of the diphthamide biosynthesis pathway, to posttranslationally modify a conserved histidine residue (His699 in yeast and His715 in human) of eukaryotic elongation factor 2 (eEF-2).

## Storage

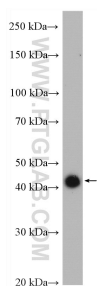
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

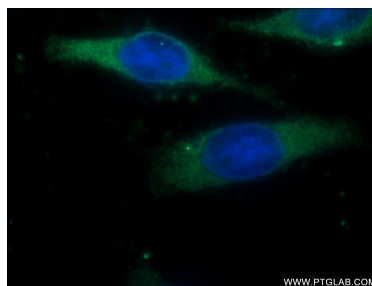
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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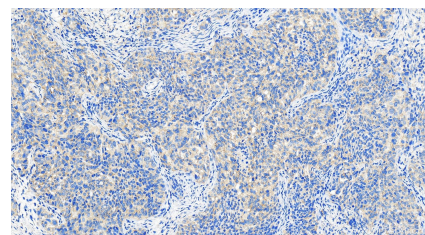
## Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 20112-1-AP (OVCA1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HeLa cells using 20112-1-AP (OVCA1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 20112-1-AP (OVCA1 antibody) at dilution of 1:100 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).