

## 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> 170 ug/ml	<b>GeneID (NCBI):</b> 1801	<b>Recommended Dilutions:</b> WB 1:500-1:1000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9BZG8	IHC 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> DPH1 homolog (S. cerevisiae)	IF/ICC 1:20-1:200
<b>Immunogen Catalog Number:</b> AG13910	<b>Calculated MW:</b> 489 aa, 52 kDa	
	<b>Observed MW:</b> 40-60 kDa	

## Applications

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

**Species Specificity:**  
human

**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,

IHC : human ovary cancer tissue,

IF/ICC : 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

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

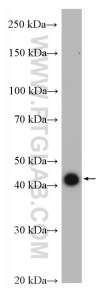
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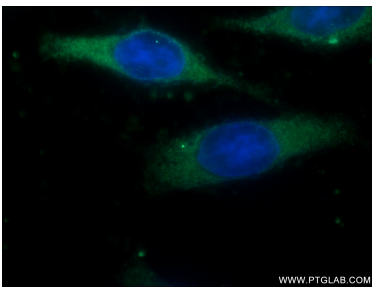
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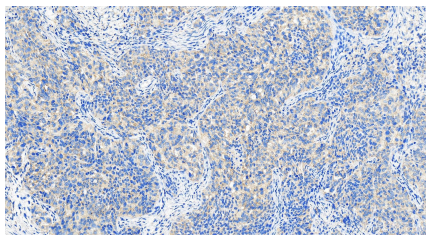
## Selected Validation Data



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).