

For Research Use Only

OVCA1 Polyclonal antibody

Catalog Number:20112-1-AP



Basic Information

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

*** 20ul sizes contain 0.1% BSA

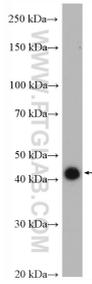
For technical support and original validation data for this product please contact:

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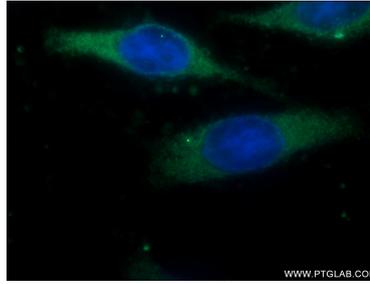
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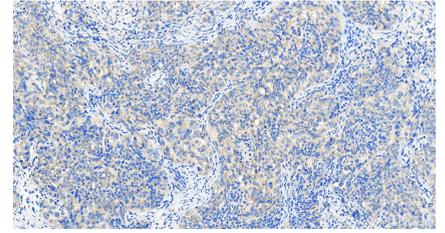
Selected Validation Data



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).