



Rabbit Anti-OVCA1 antibody

SL5714R

Product Name:	OVCA1
Chinese Name:	卵巢癌相关基因1抗体
Alias:	Candidate tumor suppressor in ovarian cancer 1; Diphthamide biosynthesis protein 1; Diphthamide biosynthesis protein 2 homolog like 1; Diphthamide biosynthesis protein 2 like; Diphtheria toxin resistance protein required for diphthamide biosynthesis (Saccharomyces) like 1 ; Diphtheria toxin resistance protein required for diphthamide biosynthesis like 1; DPH like 1 (S. cerevisiae); DPH like 1; DPH1; DPH1 homolog (S. cerevisiae); DPH1 homolog; DPH2 like 1; DPH2L; DPH2L1; HsDph1; Ovarian cancer associated gene 1; Ovarian cancer associated gene 1 protein; Ovarian tumor suppressor candidate 1; DPH1 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	49kDa
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human OVCA1:251-350/443
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	OVCA1 is required for the first step in the synthesis of diphthamide, a unique

posttranslationally modified histidine found only in translation elongation factor-2 (EEF2; MIM 130610). This modification is conserved from archaeobacteria to humans and serves as the target for ADP-ribosylation and inactivation of EEF2 by diphtheria toxin (DT) and Pseudomonas exotoxin A. OVCA1 is one of several enzymes involved in synthesis of diphthamide in EEF2.

Function:

Required for the first step in the synthesis of diphthamide, a post-translational modification of histidine which occurs in translation elongation factor 2. When overexpressed, suppresses colony formation ability and growth rate of ovarian cancer cells. Acts also as a tumor suppressor in lung and breast cancers (By similarity). Plays a role in embryonic growth, organogenesis and postnatal survival (By similarity).

Subunit:

Interacts with DPH2 (By similarity). Interacts with RBM8A.

Subcellular Location:

Nucleus. Cytoplasm. Note=Punctate, primarily perinuclear localization.

Tissue Specificity:

Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney, pancreas, spleen, thymus, mammary gland, colon, small intestine, testis and ovary. Reduced expression in primary breast and ovarian tumors.

Similarity:

Belongs to the DPH1/DPH2 family. DPH1 subfamily.

SWISS:

Q9BZG8

Gene ID:

1801

Database links:

[Entrez Gene: 1801](#)Human

[Entrez Gene: 116905](#)Mouse

[Entrez Gene: 287523](#)Rat

[Omim: 603527](#)Human

[SwissProt: Q9BZG8](#)Human

[SwissProt: Q5NCQ5](#)Mouse

[Unigene: 513856](#)Human

[Unigene: 41496](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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