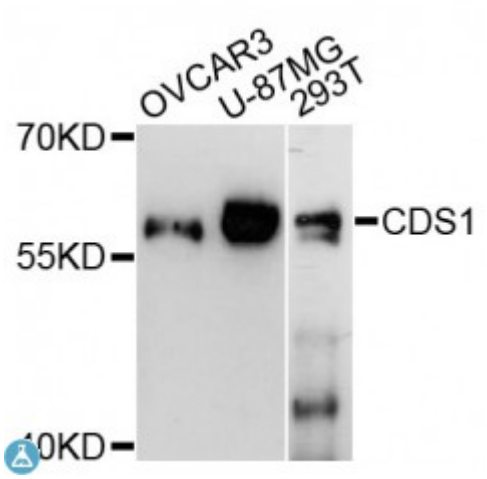
Anti-CDS1 Antibody



Description	Breakdown products of phosphoinositides are ubiquitous second messengers that function downstream of many G protein-coupled receptors and tyrosine kinases regulating cell growth, calcium metabolism, and protein kinase C activity. This gene encodes an enzyme which regulates the amount of phosphatidylinositol available for signaling by catalyzing the conversion of phosphatidic acid to CDP-diacylglycerol. This enzyme is an integral membrane protein localized to two subcellular domains, the matrix side of the inner mitochondrial membrane where it is thought to be involved in the synthesis of phosphatidylglycerol and cardiolipin and the cytoplasmic side of the endoplasmic reticulum where it functions in phosphatidylinositol biosynthesis. Two genes encoding this enzyme have been identified in humans, one mapping to human chromosome 4q21 and a second to 20p13.
Model	STJ115706
Host	Rabbit
Reactivity	Human
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-80 of human CDS1 (NP_001254.2).
Gene ID	1040
Gene Symbol	CDS1
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	Expressed in adult tissues such as placenta, brain, small intestine, ovary, testis and prostate, Highly expressed in fetal kidney, lung and brain, Lower level in

	fetal liver
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Phosphatidate cytidylyltransferase 1
Molecular Weight	53.304 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:1800OMIM:603548Reactome:R-HSA-1483226
Alternative Names	Phosphatidate cytidylyltransferase 1
Function	Provides CDP-diacylglycerol, an important precursor for the synthesis of phosphatidylinositol (PtdIns), phosphatidylglycerol, and cardiolipin, Overexpression may amplify cellular signaling responses from cytokines, May also play an important role in the signal transduction mechanism of retina and neural cells
Cellular Localization	Endoplasmic reticulum membrane