

Product datasheet for **AP46043PU-N**

CDS1 (N-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western blotting (0.2 - 1 µg/ml).
Reactivity:	Bovine, Canine, Human, Mouse, Porcine, Rabbit, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to the N-terminal region of human CDS1
Formulation:	State: Aff - Purified State: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Immunoaffinity column
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	CDS1: 53 kDa
Gene Name:	CDP-diacylglycerol synthase 1
Database Link:	NP_001254 Entrez Gene 1040 Human Q92903



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Background:

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. CDS1 is 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.

Synonyms:

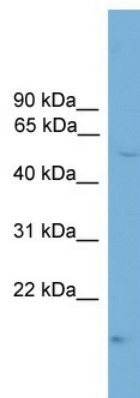
CDP-DG synthetase 1, CDP-DAG synthase 1

Protein Families:

Transmembrane

Protein Pathways:

Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system

Product images:

Human Jurkat; WB Suggested Anti-CDS1 Antibody Titration: 0.2-1 ug/ml. ELISA Titer: 1:62500.
Positive Control: Jurkat cell lysate; CDS1 antibody - N-terminal region (AP46043PU-N) in Human Jurkat cells using Western Blot