

## Product datasheet for **AP05306PU-N**

### **CERT1 Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	WB
<b>Recommended Dilution:</b>	Western blot (1:400 starting dilution). Positive control: Ovary.
<b>Reactivity:</b>	Human
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	Synthetic peptide derived from human CERTL protein
<b>Specificity:</b>	This antibody detects CERTL.
<b>Formulation:</b>	Phosphate buffered saline with 0.08% sodium azide State: Aff - Purified State: Liquid Ig fraction
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Affinity chromatography
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store the product (in aliquots) at -20 °C. Can be shipped at 2 - 8 °C. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: One year from despatch.
<b>Gene Name:</b>	collagen type IV alpha 3 binding protein
<b>Database Link:</b>	<a href="#">Entrez Gene 10087 Human</a> <a href="#">Q9Y5P4</a>



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**Background:**

CERT mediates the ATP-dependent ER-to-Golgi transfer of ceramide in a non-vesicular manner. The biosynthesis of lipids involves steps that occur in different intracellular compartments. The movement of lipids within these compartments is important in lipid-mediated signalling. Human CERT is identical to a splice variant of human Goodpasture antigen-binding protein (GPBP26).

CERT contains a phosphoinositide-binding pleckstrin-homology (PH) domain (which targets CERT to the Golgi by binding phosphatidylinositol-4-phosphate (PtdIns4P)), a middle region, and a putative lipid-transfer-catalysing domain called START. CERT and CERTL can specifically extract ceramide from phospholipid bilayers in a START-domain-dependent manner. CERT interacts with ER membranes and specifically extracts ceramide. CERT catalyses both the specific extraction of ceramide from donor vesicles and its transfer to acceptor vesicles. CERT can associate with the Golgi in a PtdIns4P dependent manner.

**Synonyms:**

CERT, STARD11, Collagen type IV alpha-3-binding protein, Ceramide transfer protein, hCERT, Goodpasture antigen-binding protein, GPBP, StAR-related lipid transfer protein 11, START domain-containing protein 11, StARD11