

**CERS4 Antibody (N-Term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP21979a**

**Specification**

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**CERS4 Antibody (N-Term) - Product Information**

Application	WB, FC,E
Primary Accession	<a href="#">O9HA82</a>
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	46399

**CERS4 Antibody (N-Term) - Additional Information**

**Gene ID** 79603

**Other Names**

Ceramide synthase 4, CerS4, LAG1 longevity assurance homolog 4, CERS4, LASS4

**Target/Specificity**

This CERS4 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 21-51 amino acids from human CERS4.

**Dilution**

WB~~1:2000

FC~~1:25

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CERS4 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CERS4 Antibody (N-Term) - Protein Information**

**Name** CERS4 {ECO:0000303|PubMed:17977534, ECO:0000312|HGNC:HGNC:23747}

**Function** Ceramide synthase that catalyzes formation of ceramide from sphinganine and acyl-CoA substrates, with high selectivity toward long and very-long chains (C18:0-C22:0) as acyl donor.

### Cellular Location

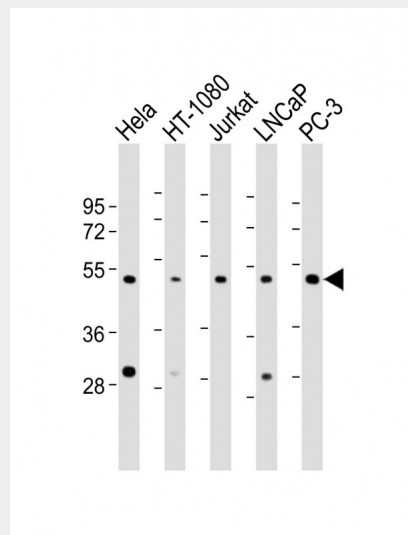
Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q9D6J1}; Multi-pass membrane protein

### CERS4 Antibody (N-Term) - Protocols

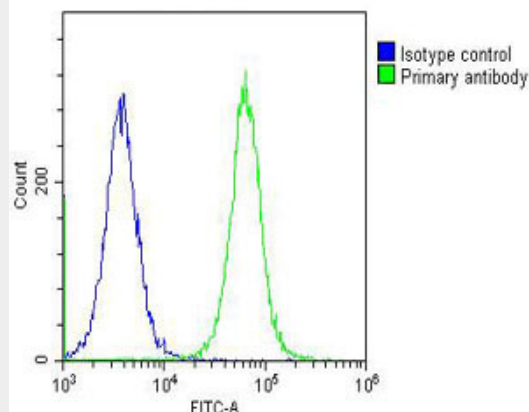
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### CERS4 Antibody (N-Term) - Images



All lanes : Anti-CERS4 Antibody (N-Term) at 1:2000 dilution Lane 1: HeLa whole cell lysate Lane 2: HT-1080 whole cell lysate Lane 3: Jurkat whole cell lysate Lane 4: LNCaP whole cell lysate Lane 5: PC-3 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 46 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Overlay histogram showing Hela cells stained with AP21979a (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP21979a, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG (1µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10,000 events was performed.

#### **CERS4 Antibody (N-Term) - Background**

May be either a bona fide (dihydro)ceramide synthase or a modulator of its activity. When overexpressed in cells is involved in the production of sphingolipids containing different fatty acid donors (N-linked stearyl- (C18) or arachidoyl- (C20) ceramides) in a fumonisins B1-independent manner (By similarity).

#### **CERS4 Antibody (N-Term) - References**

Ota T., et al. *Nat. Genet.* 36:40-45(2004).  
 Grimwood J., et al. *Nature* 428:529-535(2004).  
 Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.