

# CERS4 Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP21979a

## Product Information

|                   |                        |
|-------------------|------------------------|
| Application       | WB, FC, E              |
| Primary Accession | <a href="#">Q9HA82</a> |
| Reactivity        | Human, Mouse           |
| Host              | Rabbit                 |
| Clonality         | polyclonal             |
| Isotype           | Rabbit IgG             |
| Clone Names       | RB55261                |
| Calculated MW     | 46399                  |

## 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 E~~Use at an assay dependent concentration.  |
| 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.  |

## 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   |

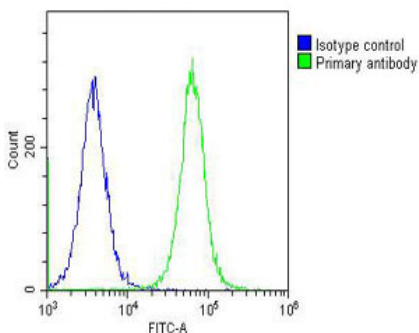
## Background

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 fumonisin B1-independent manner (By similarity).

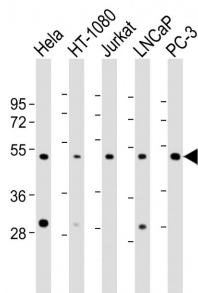
## References

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.

## Images



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 icubated 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.



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.