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

Specification

CERS4 Antibody (N-Term) - Product Information

Application	**WB, FC,E**
Primary Accession	Q9HA82
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.

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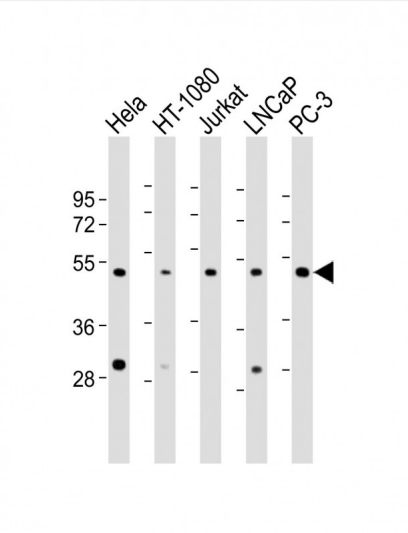
Cellular Location
Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q9D6J1}; Multi-pass membrane protein

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 Cytomety
- 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.

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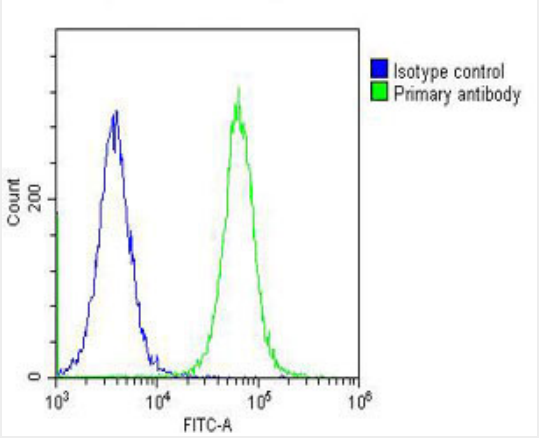

Overlay histogram showing Hela cells stained with AP21979a (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP21979a, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG (1µg/1x10^6 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 stearoyl- (C18) or arachidoyl- (C20) ceramides) in a fumonisin 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.