

ACER3 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8953b

Specification

ACER3 Antibody (C-term) - Product Information

Application	WB, FC,E
Primary Accession	Q9NUN7
Other Accession	Q9D099
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	31552
Antigen Region	224-250

ACER3 Antibody (C-term) - Additional Information

Gene ID 55331

Other Names

Alkaline ceramidase 3, AlkCDase 3, Alkaline CDase 3, 351-, Alkaline dihydroceramidase SB89, Alkaline phytoceramidase, aPHC, ACER3, APHC, PHCA

Target/Specificity

This ACER3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 224-250 amino acids from the C-terminal region of human ACER3.

Dilution

WB~~1:1000
FC~~1:10~50

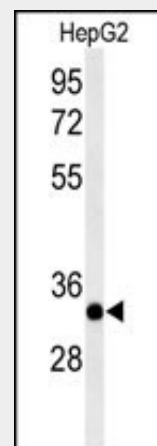
Format

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.

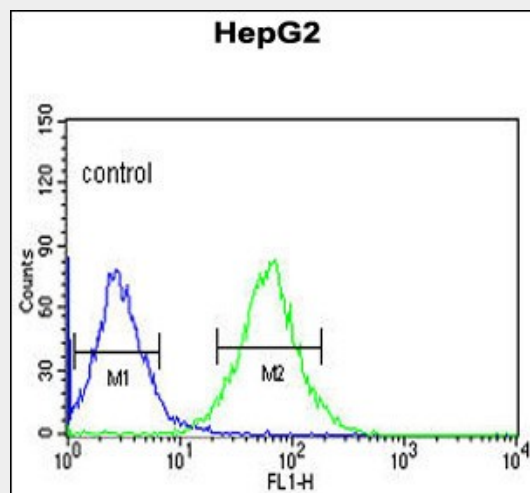
Storage

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



Western blot analysis of ACER3 Antibody (C-term) (Cat. #AP8953b) in HepG2 cell line lysates (35ug/lane). ACER3 (arrow) was detected using the purified Pab.



ACER3 Antibody (C-term) (Cat. #AP8953b) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ACER3 Antibody (C-term) - Background

ACER3 hydrolyzes only phytoceramide into

ACER3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

phytosphingosine and free fatty acid. Does not have reverse activity.

ACER3 Antibody (C-term) - Protein Information

Name ACER3

Synonyms APHC, PHCA

Function

Endoplasmic reticulum and Golgi ceramidase that catalyzes the hydrolysis of unsaturated long-chain C18:1-, C20:1- and C20:4- ceramides, dihydroceramides and phytoceramides into sphingoid bases like sphingosine and free fatty acids at alkaline pH (PubMed:20068046, PubMed:26792856, PubMed:20207939, PubMed:11356846, PubMed:30575723). Ceramides, sphingosine, and its phosphorylated form sphingosine-1-phosphate are bioactive lipids that mediate cellular signaling pathways regulating several biological processes including cell proliferation, apoptosis and differentiation (PubMed:20068046). Controls the generation of sphingosine in erythrocytes, and thereby sphingosine-1-phosphate in plasma (PubMed:20207939). Through the regulation of ceramides and sphingosine-1-phosphate homeostasis in the brain may play a role in neurons survival and function (By similarity). By regulating the levels of proinflammatory ceramides in immune cells and tissues, may modulate the inflammatory response (By similarity).

Cellular Location

ACER3 Antibody (C-term) - References

Wheeler,H.E., et.al., PLoS Genet. 5 (10), E1000685 (2009)
Mao,C. et.al., Biochim. Biophys. Acta 1781 (9), 424-434 (2008)

Endoplasmic reticulum membrane;
Multi-pass membrane protein. Golgi
apparatus membrane; Multi-pass
membrane protein

Tissue Location

Ubiquitously expressed. Highly expressed in
placenta (PubMed:11356846). Expressed in
erythrocytes (PubMed:20207939).

ACER3 Antibody (C-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](#)