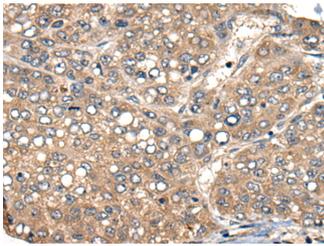


ACER1 Polyclonal Antibody

Catalog No.	E-AB-17827	Reactivity	H
Storage	Store at -20°C. Avoid freeze / thaw cycles.	Host	Rabbit
Applications	IHC,ELISA	Isotype	IgG

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Images



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using ACER1 Polyclonal Antibody at dilution of 1:50(×200)

Immunogen Information

Immunogen	Synthetic peptide of human ACER1
Gene Accession	NP597999
Swissprot	Q8TDN7
Synonyms	Acer1,ACER1,ALKCDase1,ASAH3,MGC138327,MGC138329,N-acylsphingosine amidohydrolase 3

Product Information

Buffer	PBS with 0.05% NaN ₃ and 40% Glycerol,pH7.4
Purify	Antigen affinity purification
Dilution	IHC 1:40-1:200, ELISA 1:5000-1:10000

Background

ACER1 (Alkaline Ceramidase 1) is a Protein Coding gene. Diseases associated with ACER1 include Corneal Dystrophy, Posterior Amorphous. Among its related pathways are Sphingolipid metabolism and Sphingolipid signaling pathway. GO annotations related to this gene include hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in linear amides and dihydroceramidase activity. An important paralog of this gene is ACER2. Ceramides are synthesized during epidermal differentiation and accumulate within the interstices of the stratum corneum, where they represent critical components of the epidermal permeability barrier. Excess cellular ceramide can trigger antimetogenic signals and induce apoptosis, and the ceramide metabolites sphingosine and sphingosine-1-phosphate (S1P) are important bioregulatory molecules. Ceramide hydrolysis in the nucleated cell layers regulates keratinocyte proliferation and apoptosis in response to external stress. Ceramide hydrolysis also occurs at the stratum corneum, releasing free sphingoid base that functions as an endogenous antimicrobial agent. ACER1 is highly expressed in epidermis and catalyzes the hydrolysis of very long chain ceramides to generate sphingosine.

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Applications:WB-Western Blot IHC-Immunohistochemistry IF-Immunofluorescence IP-Immunoprecipitation FC-Flow cytometry ChIP-Chromatin Immunoprecipitation Reactivity: H-Human R-Rat M-Mouse Mk-Monkey Dg-Dog Ch-Chicken Hm-Hamster Rb-Rabbit Sh-Sheep Pg-Pig Z-Zebrafish X-Xenopus C-Cow.