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Datasheet for ABIN1536908

## anti-ACER1 antibody (C-Term)

### 1 Image

#### Overview

Quantity:	400 µL
Target:	ACER1
Binding Specificity:	AA 236-263, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ACER1 antibody is un-conjugated
Application:	Western Blotting (WB)

#### Product Details

Immunogen:	This ACER1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 236-263 amino acids from the C-terminal region of human ACER1.
Clone:	RB37377
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

#### Target Details

Target:	ACER1
Alternative Name:	ACER1 ( <a href="#">ACER1 Products</a> )
Background:	Ceramides are synthesized during epidermal differentiation and accumulate within the

## Target Details

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interstices of the stratum corneum, where they represent critical components of the epidermal permeability barrier. Excess cellular ceramide can trigger antimitogenic 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 (Houben et al., 2006 [PubMed 16477081], Sun et al., 2008 [PubMed 17713573]).

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Molecular Weight: 31095

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Gene ID: 125981

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NCBI Accession: [NP\\_597999](#)

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UniProt: [Q8TDN7](#)

## Application Details

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Application Notes: WB: 1:1000

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

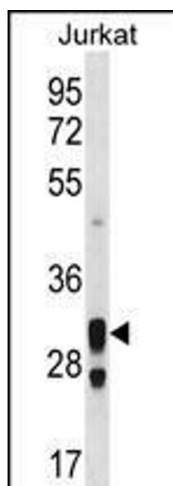
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: ACER1 Antibody (C-term) can be refrigerated at 2-8 °C for up to 6 months. For long term storage, keep at -20 °C.

Expiry Date: 6 months



#### Western Blotting

**Image 1.** ACER1 Antibody (C-term) (ABIN1536908 and ABIN2850111) western blot analysis in Jurkat cell line lysates (35 µg/lane). This demonstrates the ACER1 antibody detected the ACER1 protein (arrow).