

### **HACE1 Antibody**

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8644b

## **Specification**

## **HACE1 Antibody - Product Information**

Application WB,E
Primary Accession Q8IYU2
Reactivity Human
Host Mouse
Clonality monoclonal
Isotype IgG1,k
Calculated MW 102342

# **HACE1 Antibody - Additional Information**

### **Gene ID 57531**

### **Other Names**

E3 ubiquitin-protein ligase HACE1, 6.3.2.-, HECT domain and ankyrin repeat-containing E3 ubiquitin-protein ligase 1, HACE1, KIAA1320

# **Target/Specificity**

This HACE1 antibody is generated from a mouse immunized with a recombinant protein from the human region of human HACE1.

### **Dilution**

WB~~1:2000

E~~Use at an assay dependent concentration.

### **Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

#### 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**

HACE1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## **HACE1 Antibody - Protein Information**

### Name HACE1

## Synonyms KIAA1320

Function E3 ubiquitin-protein ligase involved in Golgi membrane fusion and regulation of small



GTPases (PubMed:15254018, PubMed:21988917, PubMed:22036506, PubMed:37537642, PubMed:38332367). Acts as a regulator of Golgi membrane dynamics during the cell cycle: recruited to Golgi membrane by Rab proteins and regulates postmitotic Golgi membrane fusion (PubMed:21988917). Acts by mediating ubiquitination during mitotic Golgi disassembly, ubiquitination serving as a signal for Golgi reassembly later, after cell division (PubMed:21988917). Specifically binds GTP-bound RAC1, mediating ubiquitination and subsequent degradation of active RAC1, thereby playing a role in host defense against pathogens (PubMed:22036506, PubMed:37537642, PubMed:38332367). May also act as a transcription regulator via its interaction with RARB (By similarity).

### **Cellular Location**

Golgi apparatus, Golgi stack membrane. Cytoplasm Endoplasmic reticulum. Note=A significant portion localizes to the endoplasmic reticulum. Targeted to Golgi membrane via its interaction with Rab proteins

### **Tissue Location**

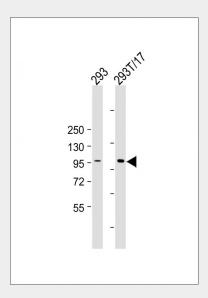
Expressed in multiple tissues including heart, brain and kidney.

## **HACE1 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

### **HACE1 Antibody - Images**



All lanes : Anti-HACE1 Antibody at 1:2000 dilution Lane 1: 293 whole cell lysate Lane 2: 293T/17 whole cell lysate e Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 102 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



# **HACE1 Antibody - Background**

E3 ubiquitin-protein ligase involved in Golgi membrane fusion and regulation of small GTPases. Acts as a regulator of Golgi membrane dynamics during the cell cycle: recruited to Golgi membrane by Rab proteins and regulates postmitotic Golgi membrane fusion. Acts by mediating ubiquitination during mitotic Golgi disassembly, ubiquitination serving as a signal for Golgi reassembly later, after cell division. Specifically interacts with GTP-bound RAC1, mediating ubiquitination and subsequent degradation of active RAC1, thereby playing a role in host defense against pathogens. May also act as a transcription regulator via its interaction with RARB.

## **HACE1 Antibody - References**

Nagase T.,et al.DNA Res. 7:65-73(2000).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
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