

**HACE1 Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM8644b****Specification**

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**HACE1 Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB,E                   |
| Primary Accession | <a href="#">Q8IYU2</a> |
| 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

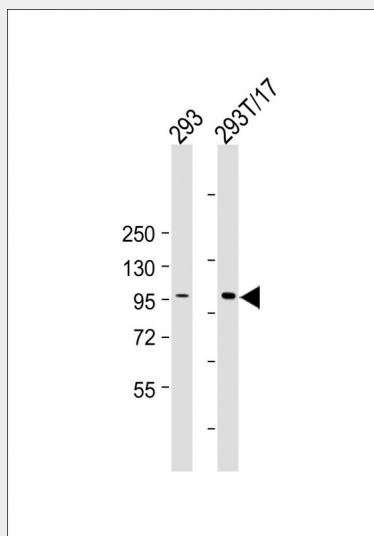
Expressed in multiple tissues including heart, brain and kidney.

### HACE1 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [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 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 102 kDa Blocking/Dilution buffer: 5% NFD/MTBST.

## **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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Anglesio M.S.,et al.Hum. Mol. Genet. 13:2061-2074(2004).