

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

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

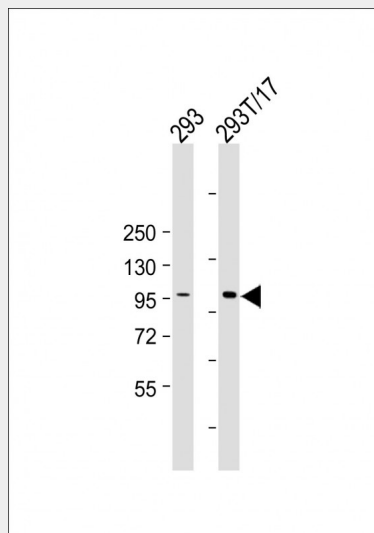
Expressed in multiple tissues including heart, brain and kidney.

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).
Mungall A.J., et al. Nature 425:805-811(2003).
Anglesio M.S., et al. Hum. Mol. Genet. 13:2061-2074(2004).