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HACE1 Antibody [Knockdown Validated]

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8644b

Product Information

Application	WB, E
Primary Accession	Q8IYU2
Reactivity	Human, Mouse, Rat
Predicted	Bovine, Canine, Rabbit, Chicken
Host	Mouse
Clonality	monoclonal
Isotype	IgG1,k
Clone Names	1854CT757.66.47
Calculated MW	102342

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 [Knockdown Validated] is for research use only and not for use in diagnostic or therapeutic procedures.

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.

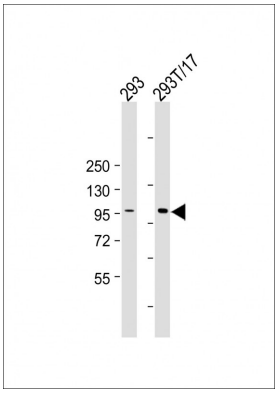
Background

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.

References

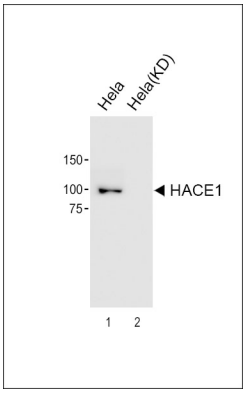
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Images



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% NFDM/TBST.

All lanes : Anti-HACE1 Antibody at 1:2000 dilution Lane 1: Hela Lane 2: Hela-Knockdown Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Mouse IgG, (H+L), Peroxidase conjugated (ASP1613) at 1/8000 dilution.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.