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Rabbit Anti-HACE1 antibody

SL6011R

Product Name:	HACE1
Chinese Name:	E3Ubiquitin蛋白连接酶HACE1抗体
Alias:	E3 ubiquitin-protein ligase HACE1; HACE 1; HECT domain and ankyrin repeat-containing E3 ubiquitin-protein ligase 1; KIAA1320.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	90-102kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human HACE1:75-170/909
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	E3 ubiquitin-protein ligase that may function in cellular proteins degradation. HACE1 has also been shown to be down-regulated in many human tumours and is a putative candidate tumor suppressor. **Function:** 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.

Subunit:
Interacts with RARB (By similarity). Interacts with RAB1 (RAB1A, RAB1B or RAB1C), RAB4 (RAB4A or RAB4B) and RAB11 (RAB11A or RAB11B); in a GTP-dependent manner. Interacts with RAC1; in a GTP-dependent manner. Interacts with the 26S proteasomal complex through the 20S core proteasomal subunit.

Subcellular Location:
Cytoplasm. Endoplasmic reticulum. A significant portion localizes to the endoplasmic reticulum.

Tissue Specificity:
Expressed in multiple tissues including heart, brain and kidney.

DISEASE:
Note=Defects in HACE1 are a cause of Wilms tumor (WT). WT is a pediatric malignancy of kidney and one of the most common solid cancers in childhood. HACE1 is epigenetically down-regulated in sporadic Wilms tumor. Moreover, a t(5;6)(q21;q21) translocation that truncates HACE1 has been found in a child with bilateral, young-onset Wilms tumor.

Similarity:
Contains 6 ANK repeats.
Contains 1 HECT (E6AP-type E3 ubiquitin-protein ligase) domain.

SWISS:
Q8IYU2

Gene ID:
57531

Database links:

Entrez Gene: 527565Cow

Entrez Gene: 100733867Guinea pig

Entrez Gene: 100071887Horse

Entrez Gene: 57531Human

	Entrez Gene: 209462Mouse Entrez Gene: 100156102Pig Entrez Gene: 361866Rat Omim: 610876Human SwissProt: F1N6G5Cow SwissProt: Q8IYU2Human SwissProt: Q3U0D9Mouse SwissProt: D3ZBM7Rat Unigene: 434340Human Unigene: 458633Mouse Unigene: 28116Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.