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CIDEB Antibody (C-erm)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21953a

Product Information

Application	WB, E
Primary Accession	Q9UHD4
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB53999
Calculated MW	24678

Additional Information

Gene ID	27141
Other Names	Cell death activator CIDE-B, Cell death-inducing DFFA-like effector B, CIDEB
Target/Specificity	This CIDEB antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 150-183 amino acids from human CIDEB.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
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	CIDEB Antibody (C-erm) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CIDEB {ECO:0000303|PubMed:35939579, ECO:0000312|HGNC:HGNC:1977}
Function	Lipid transferase specifically expressed in hepatocytes, which promotes unilocular lipid droplet formation by mediating lipid droplet fusion (PubMed:35939579). Lipid droplet fusion promotes their enlargement, restricting lipolysis and favoring lipid storage (PubMed:35939579). Localizes on the lipid droplet surface, at focal contact sites between lipid droplets, and mediates atypical lipid droplet fusion by promoting directional net neutral

	lipid transfer from the smaller to larger lipid droplets (By similarity). The transfer direction may be driven by the internal pressure difference between the contacting lipid droplet pair (By similarity). Promotes lipid exchange and lipid droplet fusion in both small and large lipid droplet- containing hepatocytes (By similarity). In addition to its role in lipid droplet fusion, also involved in cytoplasmic vesicle biogenesis and transport (By similarity). Required for very-low-density lipoprotein (VLDL) lipidation and maturation (By similarity). Probably involved in the biogenesis of VLDL transport vesicles by forming a COPII vesicle coat and facilitating the formation of endoplasmic reticulum-derived large vesicles (By similarity). Also involved in sterol-regulated export of the SCAP-SREBP complex, composed of SCAP, SREBF1/SREBP1 and SREBF2/SREBP2, by promoting loading of SCAP-SREBP into COPII vesicles (By similarity). May also activate apoptosis (PubMed:10619428).
Cellular Location	Lipid droplet. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:O70303}; Peripheral membrane protein {ECO:0000250|UniProtKB:O70303}; Cytoplasmic side {ECO:0000250|UniProtKB:O70303}. Golgi apparatus {ECO:0000250|UniProtKB:O70303}. Cytoplasmic vesicle, COPI-coated vesicle {ECO:0000250|UniProtKB:O70303}. Note=Enriched at lipid droplet contact sites. {ECO:0000250|UniProtKB:O70303}
Tissue Location	Highly expressed in liver and small intestine and, at lower levels, in colon, kidney and spleen

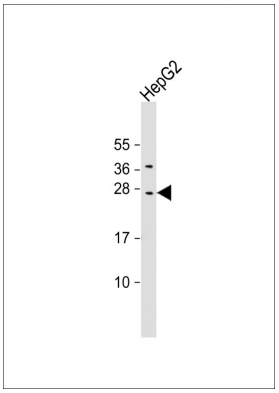
Background

Activates apoptosis.

References

Lugovskoy A.A.,et al.Cell 99:747-755(1999).
Inohara N.,et al.EMBO J. 17:2526-2533(1998).
Liang L.,et al.Submitted (SEP-2002) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Images



Anti-CIDEB Antibody (C-erm) at 1:2000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 25 kDa Blocking/Dilution buffer: 5% NFDM/TBST.