

Anti-CIDEB Antibody

Catalog # ABV11962

Product Information

Application	WB, IHC
Primary Accession	Q9UHD4
Reactivity	Human, Mouse, Rat
Host	Rabbit
Isotype	Rabbit IgG
Calculated MW	24678

Additional Information

Gene ID	27141
Positive Control	WB: HT29, RAW264.7, mouse spleen, rat spleen lysate; IHC: human liver cancer tissue, IF/IC: HT29 cells
Application & Usage	WB; 1:500 – 1:2000, IH; 1:100 – 1:200, IF/IC; 1:100 – 1:500
Other Names	Cell death activator CIDE-B; Cell death-inducing DFFA-like effector B
Target/Specificity	CIDEB
Antibody Form	Liquid
Appearance	Colorless liquid
Handling	The antibody solution should be gently mixed before use
Reconstitution & Storage	-20°C
Background Descriptions	
Precautions	Anti-CIDEB Antibody 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](#)).

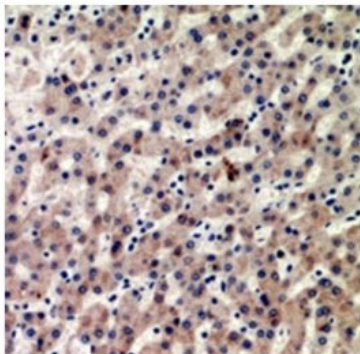
Cellular Location

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}

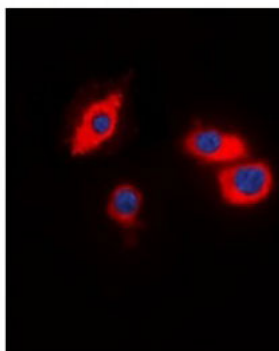
Tissue Location

Highly expressed in liver and small intestine and, at lower levels, in colon, kidney and spleen

Images



Immunohistochemical analysis of CIDEA staining in human liver cancer formalin fixed paraffin embedded tissue section.



Immunofluorescent analysis of CIDEA staining in HT29 cells

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