

CIDEC Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18249c

Specification

CIDEC Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q96AQ7
Other Accession	NP_071377.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	26754
Antigen Region	97-126

CIDEC Antibody (Center) - Additional Information

Gene ID 63924

Other Names

Cell death activator CIDEC-3, Cell death-inducing DFFA-like effector protein C, Fat-specific protein FSP27 homolog, CIDEC, FSP27

Target/Specificity

This CIDEC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 97-126 amino acids from the Central region of human CIDEC.

Dilution

WB~~1:1000

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

CIDEC Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

CIDEC Antibody (Center) - Protein Information

Name CIDEC {ECO:0000303|PubMed:20049731, ECO:0000312|HGNC:HGNC:24229}

Function Lipid transferase specifically expressed in white adipose tissue, which promotes unilocular lipid droplet formation by mediating lipid droplet fusion (PubMed:[18334488](#), PubMed:[19843876](#), PubMed:[20049731](#), PubMed:[23399566](#), PubMed:[30361435](#)). Lipid droplet fusion promotes their enlargement, restricting lipolysis and favoring lipid storage (PubMed:[18334488](#), PubMed:[19843876](#), PubMed:[20049731](#), PubMed:[23399566](#)). Localizes on the lipid droplet surface, at focal contact sites between lipid droplets, and mediates atypical lipid droplet fusion by undergoing liquid-liquid phase separation (LLPS) and promoting directional net neutral lipid transfer from the smaller to larger lipid droplets (PubMed:[18334488](#), PubMed:[19843876](#), PubMed:[20049731](#), PubMed:[23399566](#)). The transfer direction may be driven by the internal pressure difference between the contacting lipid droplet pair (PubMed:[18334488](#), PubMed:[19843876](#), PubMed:[20049731](#), PubMed:[23399566](#)). Its role in neutral lipid transfer and lipid droplet enlargement is activated by the interaction with PLIN1 (PubMed:[23399566](#)). May also act as a CEBPB coactivator in the white adipose tissue to control the expression of a subset of CEBPB downstream target genes, including SOCS1, SOCS3, TGFB1, TGFB1R, ID2 and XDH (By similarity). When overexpressed in preadipocytes, induces apoptosis or increases cell susceptibility to apoptosis induced by serum deprivation or TGFB treatment (PubMed:[12429024](#)).

Cellular Location

Lipid droplet. Endoplasmic reticulum {ECO:0000250|UniProtKB:P56198}. Nucleus {ECO:0000250|UniProtKB:P56198} Note=Diffuses quickly on lipid droplet surface, but becomes trapped and clustered at lipid droplet contact sites, thereby enabling its rapid enrichment at lipid droplet contact sites {ECO:0000250|UniProtKB:P56198}

Tissue Location

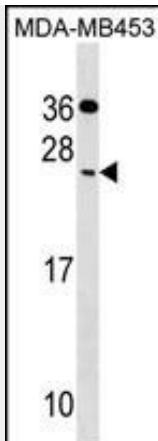
Expressed mainly in adipose tissue, small intestine, heart, colon and stomach and, at lower levels, in brain, kidney and liver.

CIDEC Antibody (Center) - 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](#)

CIDEC Antibody (Center) - Images



CIDEC Antibody (Center) (Cat. #AP18249c) western blot analysis in MDA-MB453 cell line lysates (35ug/lane). This demonstrates the CIDEC antibody detected the CIDEC protein (arrow).

CIDEC Antibody (Center) - Background

DNA fragmentation factor (DFF) induces the fragmentation of DNA associated with apoptosis. A novel family of cell death-inducing DFF45 (MIM 601882)-like effectors (CIDEs), including CIDEC, can also promote apoptosis (Liang et al., 2003 [PubMed 12429024]).

CIDEC Antibody (Center) - References

- Ito, M., et al. J. Lipid Res. 51(7):1676-1684(2010)
- Nian, Z., et al. J. Biol. Chem. 285(13):9604-9615(2010)
- Hall, A.M., et al. Obesity (Silver Spring) 18(2):417-419(2010)
- Rubio-Cabezas, O., et al. EMBO Mol Med 1(5):280-287(2009)
- Magnusson, B., et al. Metab. Clin. Exp. 57(9):1307-1313(2008)