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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 Ig**
Calculated MW	**26754**
Antigen Region	**97-126**

CIDEC Antibody (Center) - Additional Information

Gene ID 63924

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

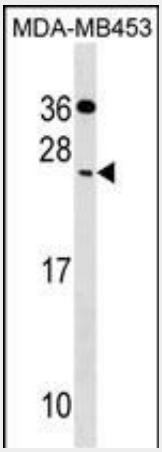
Target/Specificity
This CIDEC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 97-126 amino acids from the Central region of human CIDEC.

Dilution
WB~~1:1000

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



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)

only and not for use in diagnostic or therapeutic procedures.

CIDEC Antibody (Center) - Protein Information

Name CIDEC

Synonyms FSP27

Function
Binds to lipid droplets and regulates their enlargement, thereby restricting lipolysis and favoring storage. At focal contact sites between lipid droplets, promotes directional net neutral lipid transfer from the smaller to larger lipid droplets. The transfer direction may be driven by the internal pressure difference between the contacting lipid droplet pair. Its role in neutral lipid transfer and lipid droplet enlargement is activated by the interaction with PLIN1. May 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, TGFBR1, ID2 and XDH. When overexpressed in preadipocytes, induces apoptosis or increases cell susceptibility to apoptosis induced by serum deprivation or TGFB treatment. As mature adipocytes, that express high CIDEC levels, are quite resistant to apoptotic stimuli, the physiological significance of its role in apoptosis is unclear. May play a role in the modulation of the response to osmotic stress by preventing NFAT5 to translocate into the nucleus and activate its target genes expression.

Cellular Location
Nucleus. Endoplasmic reticulum. Lipid droplet. 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

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

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Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture