

**CIDEA / CIDE-A Antibody (aa200-217)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS11531****Specification**

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**CIDEA / CIDE-A Antibody (aa200-217) - Product Information**

Application	IF, WB, IHC
Primary Accession	<a href="#">O60543</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	25kDa KDa

**CIDEA / CIDE-A Antibody (aa200-217) - Additional Information****Gene ID** 1149**Other Names**

Cell death activator CIDE-A, Cell death-inducing DFFA-like effector A, CIDEA

**Target/Specificity**

peptide corresponding to amino acids 200 to 217 of human CIDE-A

**Reconstitution & Storage**

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

**Precautions**

CIDEA / CIDE-A Antibody (aa200-217) is for research use only and not for use in diagnostic or therapeutic procedures.

**CIDEA / CIDE-A Antibody (aa200-217) - Protein Information****Name** CIDEA {ECO:0000303|PubMed:18509062, ECO:0000312|HGNC:HGNC:1976}**Function**

Lipid transferase that promotes unilocular lipid droplet formation by mediating lipid droplet fusion (PubMed:<a href="http://www.uniprot.org/citations/19843876" target="\_blank">19843876</a>, PubMed:<a href="http://www.uniprot.org/citations/26118629" target="\_blank">26118629</a>). Lipid droplet fusion promotes their enlargement, restricting lipolysis and favoring lipid storage (PubMed:<a href="http://www.uniprot.org/citations/19843876" target="\_blank">19843876</a>). 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 and occurs at a lower rate than that promoted by CIDEA (By similarity). May also act as a CEBPB coactivator in epithelial cells to control the expression of a subset of CEBPB downstream target genes, including ID2, IGF1, PRLR, SOCS1, SOCS3, XDH, but not casein (By similarity). By interacting with CEBPB, strengthens the association of CEBPB with the XDH promoter, increases histone acetylation and dissociates HDAC1 from the

promoter (By similarity). When overexpressed, induces apoptosis; the physiological significance of its role in apoptosis is unclear (By similarity).

#### Cellular Location

Lipid droplet. Nucleus {ECO:0000250|UniProtKB:O70302}. Note=Enriched at lipid droplet contact sites.

#### Tissue Location

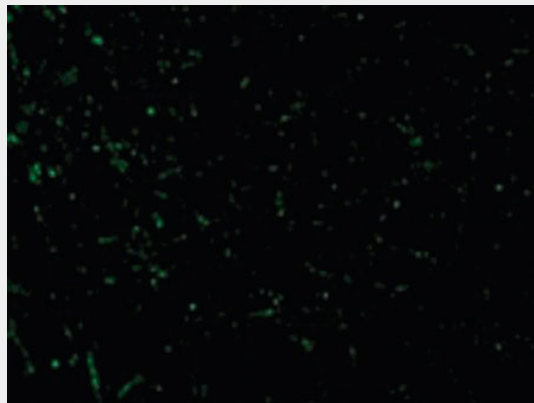
Expressed in omental and subcutaneous adipose tissue (at protein level).

### CIDEA / CIDE-A Antibody (aa200-217) - Protocols

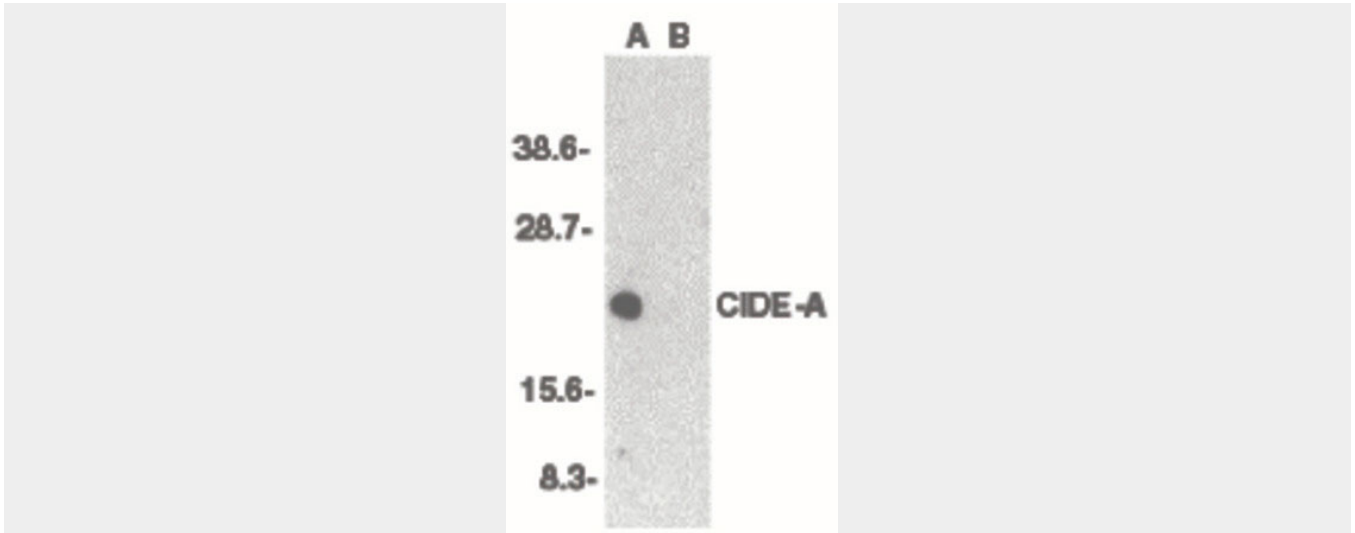
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

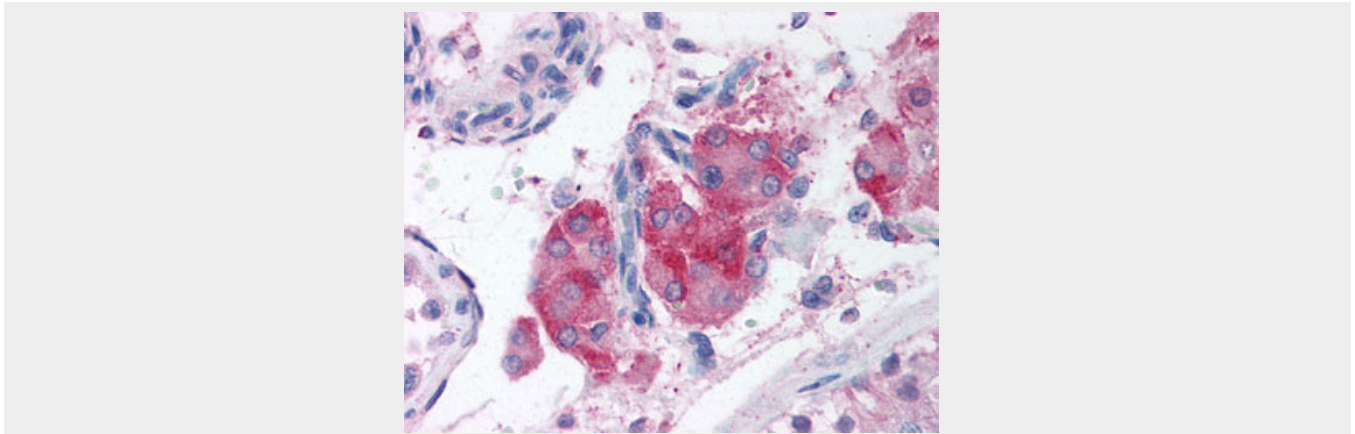
### CIDEA / CIDE-A Antibody (aa200-217) - Images



Immunofluorescence of CIDE-A in Human Brain cells with CIDE-A antibody at 20 ug/ml.



Western blot of CIDE-A in human brain tissue lysate in the absence (A) or presence (B) of...



Anti-CIDE A antibody IHC of human testis.

### **CIDEA / CIDE-A Antibody (aa200-217) - Background**

Acts as a CEBPB coactivator in mammary epithelial cells to control the expression of a subset of CEBPB downstream target genes, including ID2, IGF1, PRLR, SOCS1, SOCS3, XDH, but not casein. By interacting with CEBPB, strengthens the association of CEBPB with the XDH promoter, increases histone acetylation and dissociates HDAC1 from the promoter (By similarity). 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 and occurs at a lower rate than that promoted by CIDEA. When overexpressed, induces apoptosis. The physiological significance of its role in apoptosis is unclear.

### **CIDEA / CIDE-A Antibody (aa200-217) - References**

- Inohara N., et al. EMBO J. 17:2526-2533(1998).
- Liang L., et al. Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases.
- Puri V., et al. Proc. Natl. Acad. Sci. U.S.A. 105:7833-7838(2008).
- Liu K., et al. Am. J. Physiol. 297:E1395-E1413(2009).