

CIDEA Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP14057b**Specification****CIDEA Antibody (C-term) Blocking peptide -
Product Information**Primary Accession [O60543](#)**CIDEA Antibody (C-term) Blocking peptide -
Additional Information****Gene ID** 1149**Other Names**Cell death activator CIDE-A, Cell
death-inducing DFFA-like effector A, CIDEA**Target/Specificity**

The synthetic peptide sequence used to generate the antibody AP14057b was selected from the C-term region of CIDEA. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**CIDEA Antibody (C-term) Blocking peptide -
Protein Information****Name** CIDEA**Function**

Acts as a CEBPB coactivator in mammary epithelial cells to control the expression of a

**CIDEA Antibody (C-term) Blocking peptide
- Background**

This gene encodes the homolog of the mouse protein Cide that has been shown to activate apoptosis. This activation of apoptosis is inhibited by the DNA fragmentation factor DFF45 but not by caspase inhibitors. Mice that lack functional Cidea have higher metabolic rates, higher lipolysis in brown adipose tissue and higher core body temperatures when subjected to cold. These mice are also resistant to diet-induced obesity and diabetes. This suggests that in mice this gene product plays a role in thermogenesis and lipolysis. Alternatively spliced transcripts have been identified.

**CIDEA Antibody (C-term) Blocking peptide
- References**

Li, F., et al. FEBS J. 277(20):4173-4183(2010) Ito, M., et al. J. Lipid Res. 51(7):1676-1684(2010) Huang, Y.W., et al. Gynecol. Oncol. 117(2):239-247(2010) Laurencikiene, J., et al. Cancer Res. 68(22):9247-9254(2008) Valouskova, E., et al. Gen. Physiol. Biophys. 27(2):92-100(2008)

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 CIDEC. When overexpressed, induces apoptosis. The physiological significance of its role in apoptosis is unclear.

Cellular Location

Lipid droplet. Nucleus. Note=Enriched at lipid droplet contact sites Has been shown to localize to mitochondria, where it could interact with UCP1 and hence inhibit UCP1 uncoupling activity (By similarity) These data could not be confirmed (PubMed:18509062). {ECO:0000250, ECO:0000269|PubMed:18509062}

Tissue Location

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

**CIDEA Antibody (C-term) Blocking peptide
- Protocols**

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

- [Blocking Peptides](#)