abcam

Product datasheet

Anti-CIDE A antibody ab62343

1 References 3 Images

Overview

Product name	Anti-CIDE A antibody
Description	Rabbit polyclonal to CIDE A
Host species	Rabbit
Specificity	No cross activity to CIDE B
Tested applications	**Suitable for:** WB, IHC-P, ICC/IF
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide corresponding to Human CIDE A aa 200-300. Database link: **O60543** Run BLAST with Run BLAST with
Positive control	Brain (Human) Tissue Lysate - adult normal tissue
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab62343 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/2000. Detects a band of approximately 23 kDa (predicted molecular weight: 25 kDa).
IHC-P		Use at an assay dependent concentration.
ICC/IF		Use a concentration of 20 µg/ml.

Target

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

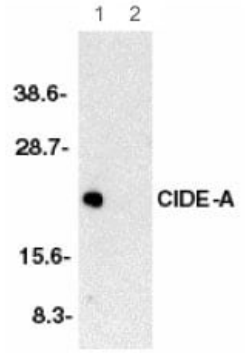
Tissue specificity Expressed in omental and subcutaneous adipose tissue (at protein level).

Involvement in disease In omental and subcutaneous adipose tissue of obese patients matched for BMI, expression levels correlate with insulin sensitivity. Expression is increased 5-6 fold in the group of patients with high insulin sensitivity, compared to the insulin-resistant group. This observation is consistent with the idea that triglyceride storage in adipocytes plays an important role in sequestering triglycerides and fatty acids away from the circulation and peripheral tissues, thus enhancing insulin sensitivity in liver and muscle.

Sequence similarities Contains 1 CIDE-N domain.

Cellular localization Lipid droplet. Nucleus. Enriched at lipid droplet contact sites. Has been shown to localize to mitonchondria, where it could interact with UCP1 and hence inhibit UCP1 uncoupling activity (By similarity). These data could not be confirmed (PubMed:18509062).

Images

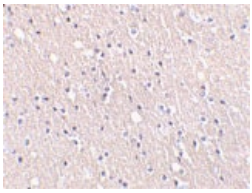


Western blot - Anti-CIDE A antibody (ab62343)

All lanes : Anti-CIDE A antibody (ab62343) at 1/2000 dilution

Lane 1 : Human brain tissue lysate in the absence of the immunizing peptide
Lane 2 : Human brain tissue lysate in the presence of the immunizing peptide

Predicted band size: 25 kDa
Observed band size: 23 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CIDE A antibody (ab62343)

ab62343 at 5ug/ml staining human brain tissue by IHC-P.

Immunocytochemistry/ Immunofluorescence - Anti-CIDE A antibody (ab62343)

Immunofluorescence of CIDE-A in Human Brain cells using ab62343 at 20 ug/ml.

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