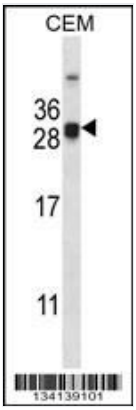
CIDEA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CIDEA, Polyclonal Antibody
Full Product Name	CIDEA, CT (CIDEA, Cell death activator CIDE-A, Cell death-inducing DFFA-like effector A) (FITC)
Product Gene Name	anti-CIDEA antibody
Product Synonym Names	CIDEA; Cell death activator CIDE-A; Cell death-inducing DFFA-like effector A
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	24,687 Da
Chromosome Location	Chromosome: 18; NC_000018.9 (12254318..12277594). Location: 18p11.21; 18
OMIM	604440
3D Structure	ModBase 3D Structure for O60543
Immunogen	CIDEA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 180-209 amino acids from the C-terminal region of human CIDEA.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-CIDEA antibody	Antibodies; Apoptosis
Applications Tested/Suitable for anti-CIDEA antibody	Western Blot (WB), FLISA
Application Notes for anti-CIDEA antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CIDEA antibody	This gene encodes the homolog of the mouse protein Cidea 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.

Product References and Citations for anti-CIDEA antibody	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).
Other Notes	Small volumes of anti-CIDEA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CIDEA purchase	MBS6286165 is an antibody targeting CIDEA. Also known as CIDEA, CT (CIDEA, Cell death activator CIDE-A, Cell death-inducing DFFA-like effector A) (FITC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CIDEA antibody
CIDEA Antibody (C-term) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the CIDEA antibody detected the CIDEA protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CIDEA. It may not necessarily be applicable to this product.

NCBI GI #	4557465
NCBI GeneID	1149
NCBI Accession #	NP_001270.1
UniProt Primary Accession #	O60543
UniProt Secondary Accession #	Q6UPR7; B0YIY7
UniProt Related Accession #	O60543; Q8N5P9
GenBank Nucleotide #	NM_001279.3
NCBI Official Full Name	cell death activator CIDE-A isoform 1
NCBI Official Synonym Full Names	cell death-inducing DFFA-like effector a
NCBI Official Symbol	CIDEA
NCBI Official Synonym Symbols	CIDE-A
UniProt Protein Name	Cell death activator CIDE-A
UniProt Synonym Protein Names	Cell death-inducing DFFA-like effector A
Protein Family	Cell death activator
UniProt Gene Name	CIDEA
UniProt Entry Name	CIDEA_HUMAN
NCBI Protein Information	cell death activator CIDE-A; OTTHUMP00000162472

UniProt Comments for CIDEA	CIDEA: 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. 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. 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. Protein type: Apoptosis; Mitochondrial Chromosomal Location of Human Ortholog: 18p11.21|18 Cellular Component: mitochondrial envelope; mitochondrion; cytoplasm; lipid particle; nucleus Molecular Function: protein homodimerization activity Biological Process: cell death; regulation of apoptosis; sequestering of lipid; regulation of transcription, DNA-dependent; transcription, DNA-dependent; negative regulation of lipid catabolic process; apoptosis; negative regulation of cytokine secretion; lipid metabolic process; negative regulation of tumor necrosis factor production; thermoregulation; negative regulation of transforming growth factor beta receptor signaling pathway
Research Articles on CIDEA	**1.** The proportion of subjects with CIDEA) gene V115F (G/T) polymorphism with phenotypes of metabolic syndrome in a Chinese population was significantly higher based on genotype, in the order: GG
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