10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CEBPD Antibody

Catalog # ASC11564

Product Information

Application	WB, IF, E
Primary Accession	P49716
Other Accession	NP_005186, 28872798
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	28467
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	CEBPD antibody can be used for detection of CEBPD by Western blot at 0.5 - 1 g/mL. For immunofluorescence start at 20 g/mL.

Additional Information

Gene ID	1052
Other Names	CCAAT/enhancer-binding protein delta, C/EBP delta, Nuclear factor NF-IL6-beta, NF-IL6-beta, CEBPD
Target/Specificity	CEBPD; Multiple transcript variants encoding different isoforms have been found for this gene.
Reconstitution & Storage	CEBPD antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	CEBPD Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CEBPD
Function	Transcription activator that recognizes two different DNA motifs: the CCAAT homology common to many promoters and the enhanced core homology common to many enhancers (PubMed:16397300). Important transcription factor regulating the expression of genes involved in immune and inflammatory responses (PubMed:16397300, PubMed:1741402). Transcriptional activator that enhances IL6 transcription alone and as heterodimer with CEBPB (PubMed:1741402).
Cellular Location	Nucleus.

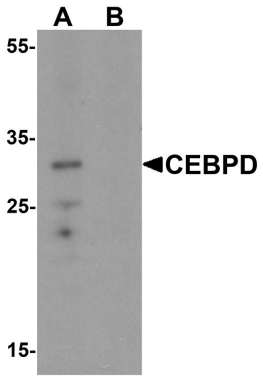
Background

CEBPD Antibody: CCAAT enhancer binding proteins (CEBPs) are a family of transcription factors that all contain a highly conserved, basic-leucine zipper domain at the C-terminus that is involved in dimerization and DNA binding. At least six members of the family have been isolated and characterized to date (CEBP alpha to CEBP zeta). CEBPD is a leucine zipper (LZ) DNA-binding protein that regulates gene expression in a variety of tissues including liver, adipose, lung and intestine. CEBPD is an important transcriptional activator in the regulation of genes involved in immune and inflammatory responses and has been reported to possess many tumor suppressor-like properties.

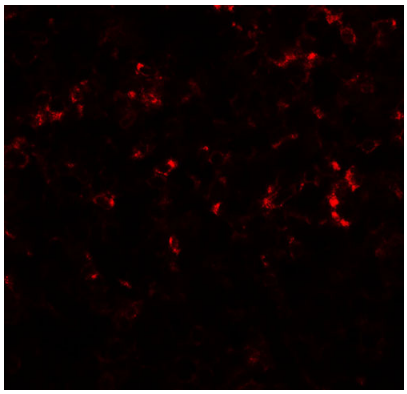
References

Williams SC, Cantwell CA, Johnson PF, et al. A family of C/EBP-related proteins capable of forming covalently linked leucine zipper dimers in vitro. Genes Dev.1991; 5:1553-67.
Umek RM, Friedman AD, and McKnight SL. CCAAT-enhancer binding protein: a component of a differentiation switch. Science 1991; 251:288-92.
Ramji DP and Foka P. CCAAT/enhancer-binding proteins: structure, function and regulation. Biochem. J. 2002; 365:561-75.
Johnson PF, Landschulz WH, Graves BJ, et al. Identification of a rat liver nuclear protein that binds to the enhancer core element of three animal viruses. Genes Dev. 1987; 1:133-46.

Images



Western blot analysis of CEBPD in rat spleen tissue lysate with CEBPD antibody at 0.5 µg/mL in (A) the absence and (B) the presence of blocking peptide.



Immunofluorescence of CEBPD in human spleen tissue with CEBPD antibody at 20 µg/mL.