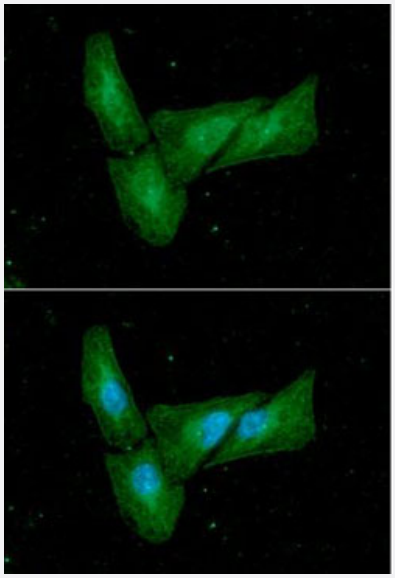
CEBPB monoclonal antibody, clone 47A1

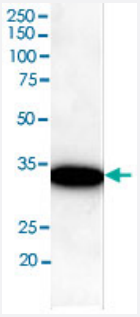
Catalog # MAB1069 Size 100 uL

Applications



Immunocytochemistry

Immunocytochemistry analysis of HeLa cells. The cell was stained with CEBPB monoclonal antibody, clone 47A1 (Cat# MAB1069) (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



Western Blot (Cell lysate)

Western blot analysis of 293T cell lysate.

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant CEBPB.
Immunogen	Recombinant protein corresponding to amino acids 1-271 of human CEBPB.
Host	Mouse
Reactivity	Human, Mouse

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Form	Liquid
Purification	Protein G purification
Isotype	IgG1, kappa
Recommend Usage	ELISA Immunocytochemistry Immunofluorescence Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunofluorescence
- Immunocytochemistry

  Immunocytochemistry analysis of HeLa cells. The cell was stained with CEBPB monoclonal antibody, clone 47A1 (Cat# MAB1069) (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).
- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Cell lysate)

  Western blot analysis of 293T cell lysate.

Gene Info — CEBPB

Entrez GeneID	1051
GeneBank Accession#	NM_005194
Protein Accession#	NP_005185
Gene Name	CEBPB
Gene Alias	C/EBP-beta, CRP2, IL6DBP, LAP, MGC32080, NF-IL6, TCF5

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Gene Description	CCAAT/enhancer binding protein (C/EBP), beta
Omim ID	189965
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this intronless gene is a bZIP transcription factor which can bind as a homodimer to certain DNA regulatory regions. It can also form heterodimers with the related proteins CEBP-alpha, CEBP-delta, and CEBP-gamma. The encoded protein is important in the regulation of genes involved in immune and inflammatory responses and has been shown to bind to the IL-1 response element in the IL-6 gene, as well as to regulatory regions of several acute-phase and cytokine genes. In addition, the encoded protein can bind the promoter and upstream element and stimulate the expression of the collagen type I gene. [provided by RefSeq
Other Designations	CCAAT/enhancer binding protein beta|interleukin 6-dependent DNA-binding protein|liver-enriched transcriptional activator protein|nuclear factor of interleukin 6|transcription factor 5

Publication Reference

- Differential activation of a C/EBP beta isoform by a novel redox switch may confer the lipopolysaccharide-inducible expression of interleukin-6 gene.

  Su WC, Chou HY, Chang CJ, Lee YM, Chen WH, Huang KH, Lee MY, Lee SC.

  The Journal of Biological Chemistry 2003 Dec; 278(51):51150.

  Application: WB-Tr, Human, HEK 293T cells

- Regulation of CCAAT/enhancer-binding protein (C/EBP) activator proteins by heterodimerization with C/EBPgamma (Ig/EBP).

  Parkin SE, Baer M, Copeland TD, Schwartz RC, Johnson PF.

  The Journal of Biological Chemistry 2002 Jun; 277(26):23563.

  Application: WB-Tr, Human, HepG2, L cells

- Biological role of the CCAAT/enhancer-binding protein family of transcription factors.

  Lekstrom-Himes J, Xanthopoulos KG.

  The Journal of Biological Chemistry 1998 Oct; 273(44):28545.

  Application: IHC, WB, Human, Mouse, Adipose tissues, Liver, Intestine, Lung,

Disease

- Genetic Predisposition to Disease
- Obesity

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