Product Data Sheet

CEBP beta Antibody (18F8)

**General Information**

MA1-826 detects C/EBP beta protein in human, mouse, and rat samples. MA1-826 only detects the LAP* isoform of C/EBP beta.

MA1-826 has successfully been used in Western blot, immunofluorescent and immunoprecipitation procedures. By Western blot, this antibody detects a 37 kDa protein representing LAP* of C/EBP beta (N-terminus fragment) in transfected 293T cells.

The MA1-826 immunogen is a synthetic peptide corresponding to residues M(1) H R L L A W D A A C L P P P A A F P K L H(21) of mouse C/EBP beta. This peptide (Cat. # PEP-243) is available for use in neutralization and control experiments.

* Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.

**Tested Applications**

- **Western Blot (WB)**: 2 ug/ml
- **Immunofluorescence (IF)**: Assay dependent
- **Immunoprecipitation (IP)**: Assay dependent
- **ChIP assay (ChIP)**: See publications
- **Gel Shift (GS)**: See publications

**Published Applications**

- **ChIP assay (ChIP)**
- **Gel Shift (GS)**

**Form Information**

- **Form**: Liquid
- **Concentration**: 1mg/ml
- **Purification**: Protein G
- **Storage Buffer**: PBS with 1mg/ml BSA
- **Preservative**: 0.05% sodium azide
- **Storage Conditions**: -20° C, Avoid Freeze/Thaw Cycles

**Details**

- **Catalog Number**: MA1-826
- **Size**: 100 µg
- **Class**: Monoclonal
- **Type**: Antibody
- **Clone**: 18F8
- **Host / Isotype**: Mouse / IgG1
- **Immunogen**: Synthetic peptide corresponding to residues M(1) H R L L A W D A A C L P P P A A F P K L H(21) of mouse C/EBP beta.

**Product Specific Information**

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The C/EBP (CCAAT/enhancer binding protein) family of transcription factors--alpha, beta, delta, and epsilon)--are widely expressed proteins found in a variety of tissues. These domains contain an evolutionarily conserved five-amino acid motif (the regulatory domain motif RDM) that conforms to the consensus sequence (I/V/L) KXEP. One of the major roles of these transcription factors is that of metabolic regulation in liver and fat cells. Studies suggest that these transcription factors act in a cascade aiding in the development of the adipose cell. Three C/EBP beta isoforms (LAP*, LAP, and LIP) arise from different translation initiation and display different function in gene regulation. From a neurological standpoint, C/EBPs have been implicated in the mediation of nerve growth factor, altering synaptic plasticity, and mediation of inflammatory response in AD patients.

This product is for In Vitro experimental use only. Not for resale without express authorization.

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**Western Blot with anti-CEBP beta Monoclonal Antibody [18F8] (MA1-826)**

Western blot detection of the LAP* on transfected C/EBP beta using MA1-826.

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**Immunofluorescence with anti-CEBP beta Monoclonal Antibody [18F8] (MA1-826)**

Immunofluorescence staining of C/EBP beta in P388D1 cells using MA1-826.

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### PubMed References for CEBP beta Antibody (18F8)

#### 1 ChIP assay Reference

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

Author(s): Su WC, Chou HY, Chang CJ, Lee YM, Chen WH, Huang KH, Lee MY, Lee SC

Number of Citations: 1

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