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## C/EBP $\delta$ Antibody

**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W	<b>Reactivity:</b> M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 29	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P49716	<b>Entrez-Gene Id:</b> 1052
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### Product Usage Information

#### Application

Western Blotting

#### Dilution

1:1000

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100  $\mu$ g/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

### Specificity/Sensitivity

C/EBP $\delta$  Antibody detects endogenous levels of total C/EBP $\delta$  protein.

### Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of mouse C/EBP $\delta$ . Antibodies are purified by protein A and peptide affinity chromatography.

### Background

CCAAT/enhancer-binding proteins (C/EBPs) are a family of transcription factors critical for cellular proliferation, differentiation, metabolism, inflammatory response and many other biological events (1,2). Six members of the family have been identified (C/EBP $\alpha$ ,  $\beta$ ,  $\delta$ ,  $\gamma$ ,  $\epsilon$  and  $\zeta$ ) and have been shown to distribute in a variety of tissues (1,2). C/EBP $\delta$  is highly expressed in adipose tissue, lung and intestine (2). C/EBPs play an important role in positively regulating adipogenesis (2,3) and C/EBP $\delta$  mRNA levels are enhanced during this process (3). C/EBP $\delta$  is also expressed in the mammalian nervous system (2) and has been shown to play an important role in long-term memory (4).

### Background References

1. Lekstrom-Himes, J. and Xanthopoulos, K.G. (1998) *J Biol Chem* 273, 28545-8.
2. Ramji, D.P. and Foka, P. (2002) *Biochem J* 365, 561-75.
3. Cao, Z. et al. (1991) *Genes Dev* 5, 1538-52.
4. Taubenfeld, S.M. et al. (2001) *J Neurosci* 21, 84-91.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

### Applications Key

**W:** Western Blotting

### Cross-Reactivity Key

**M:** Mouse

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