Technical support: order@acebiolab.com

Phone: 886-3-2870051

Ver.1 Date: 20180222

C/EBP Antibody Sampler Kit

Cat# AK0131

Upon receipt, store at -20°C. Avoid freeze/thaw cycles.

PRODUCT DESCRIPTION

CCAAT/enhancer-binding proteins (C/EBPs) are transcription factors critical for cellular differentiation, terminal function, and inflammatory response. Six characterized family members (C/EBP α , β , δ , γ , ε , and ζ) are distributed in a variety of tissues. Translation from alternative start codons results in two C/EBP α isoforms (p42 and p30) that are strong transcriptional activators. Research studies indicate that insulin and insulin-like growth factor-I stimulate C/EBP lpha dephosphorylation, which may play a key role in insulininduced repression of GLUT4 transcription. Phosphorylation of C/EBP α at Thr222, Thr226, and Ser230 by GSK-3 may be required for adipogenesis. The two forms of C/EBP β , 38 kDa liver activating protein (LAP) and the 20 kDa liver inhibitory protein (LIP), may result from alternative translation. The 38 kDa LAP protein is a transcriptional activator while LIP may inhibit C/EBP β transcriptional activity. Phosphorylation of C/EBP β at distinct sites stimulates its transcriptional activity. Phosphorylation at the rat-specific site Ser105 in C/EBP β appears essential for C/EBP β activation in rat. C/EBP δ protein is highly expressed in adipose tissue, lung, and intestine. Increased expression of C/EBP δ mRNA levels during adipogenesis suggests that C/EBP δ plays an important role in positively regulating adipogenesis. C/EBP δ is expressed in the mammalian nervous system and plays an important role in long-term memory. CHOP is a C/EBP-homologous protein that inhibits C/EBP and LAP in a dominant-negative manner. CHOP expression is induced by cellular stresses, including starvation; induced CHOP suppresses cell cycle progression from G1 to S phase. During ER stress, the level of CHOP expression is elevated and CHOP functions to mediate programmed cell death.

PRODUCT INCLUDES

Cat No.	Product name	Quantity	Applications	Reactivity	Host
A340451	CEBP alpha Polyclonal Antibody	20μL	WB, IHC, ELISA	Human, Mouse, Rat	Rabbit
A340313	Phospho-CEBP alpha (Thr230) Polyclonal Antibody	20μL	WB, ELISA	Human, Mouse, Rat	Rabbit
A340332	Phospho-CEBP alpha (Ser21) Polyclonal Antibody	20μL	WB, IHC, ELISA	Human, Mouse, Rat	Rabbit
A340452	CEBP beta Polyclonal Antibody	20μL	WB, IHC, ELISA	Human, Mouse, Rat	Rabbit



A340200	Phospho-CEBP beta (Thr235)	20μL	WB, IHC, IF, ELISA	Human,	Rabbit
	Polyclonal Antibody			Mouse, Rat	
A340115	CEBPD Polyclonal Antibody	20μL	WB, IHC, ELISA	Human,	Rabbit
				Mouse, Rat	
A340482	CHOP Polyclonal Antibody	20μL	WB, IHC, IF, ELISA	Human,	Rabbit
				Mouse	
A1013s	Goat Anti-Rabbit IgG (H+L)	120μL	WB, ELISA	Rabbit	Goat
	(peroxidase/HRP conjugated)				

PRODUCT USE LIMITATION

These products are intended for research use only.

