

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CEBP α in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human CEBP beta, gamma, delta, epsilon, or zeta is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 692716
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human CEBP α Met1-Ala124 Accession # P49715
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

CCAAT-enhancer binding protein alpha (CEBP α) is a widely expressed 42 kDa basic-leucine zipper transcription factor that forms functional homodimers and heterodimers with CEBP β and CEBP γ . CEBP α inhibits mitotic progression through multiple mechanisms and also promotes terminal differentiation of granulocytes and adipocytes. Its activity is regulated by SUMOylation and by phosphorylation at multiple serine residues. CEBP α contains three TE transactivation domains (aa 1-69, aa 70-96, and aa 126-200) and one basic DNA binding motif and leucine zipper (aa 286 - 345). A 30 kDa isoform is generated by the use of an internal translation initiation site. The p30 isoform functions as a dominant negative factor by heterodimerizing with and inhibiting full length CEBP α activity. Within aa 1-124, human CEBP α shares 93% amino acid sequence identity with mouse and rat CEBP α , respectively.

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