Human CEBP α Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF7094G
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CEBP α in direct ELISAs. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) CEBP β, rhCEBP γ, rhCEBP δ, rhCEBP ζ, and rhCEBP ε is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human CEBP α Met1-Ala124 Accession # P49715
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.*

Immunohistochemistry	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

CEBP alpha (CCAAT/Enhancer-Binding Protein; also C/EBP) is a 42-43 kDa member of the C/EBP subfamily, bZIP family of proteins. It is expressed in multiple cell types, particularly those that are fully differentiated, and includes hepatocytes, skeletal muscle cells, adipocytes, intestinal epithelium and proliferating macrophages. CEBP α acts as a transcriptional activator for a large and diverse number of genes, including glycogen synthase, GLUT4, and G-CSFR, and participates in both cell cycle progression and differentiation. Human CEBP α is 358 amino acids (aa) in length). It contains one transactivation domain (aa 1-96), poly-Gly segment (aa 99-104), a poly-Pro motif (aa 183-189), a bZIP dimerization region (aa 281-334), and an overlapping DNA-binding Leu-zipper domain (aa 317-345). CEBP α forms both homodimers, and heterodimers with other subfamily members. One alternative start site at Met120 generates a low activity 30-32 kDa isoform variant. There is also a utilized phosphorylation site at Ser21 that regulates activity. Over aa 1-124, human CEBP α shares 93% aa identity with mouse CEBP α.

PRODUCT SPECIFIC NOTICES

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