

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human CEBP $\alpha$ in direct ELISAs. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) CEBP $\beta$ , rhCEBP $\gamma$ , rhCEBP $\delta$ , rhCEBP $\zeta$ , and rhCEBP $\epsilon$ is observed.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human CEBP $\alpha$ Met1-Ala124 Accession # P49715
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 $\mu$ m filtered solution in PBS.

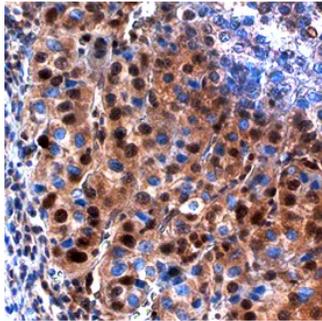
**APPLICATIONS**

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Immunohistochemistry</b>	5-15 $\mu$ g/mL	See Below

**DATA**

**Immunohistochemistry**



**CEBP  $\alpha$  in Human Liver.** CEBP  $\alpha$  was detected in immersion fixed paraffin-embedded sections of human liver using Sheep Anti-Human CEBP  $\alpha$  Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7094) at 5  $\mu$ g/mL overnight at 4  $^{\circ}$ C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to nuclei in hepatocytes. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.2 mg/mL.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 $^{\circ}$ C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 <math>^{\circ}</math>C as supplied.</li> <li>• 1 month, 2 to 8 <math>^{\circ}</math>C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 <math>^{\circ}</math>C under sterile conditions after reconstitution.</li> </ul>

**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  $\alpha$  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  $\alpha$  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  $\alpha$  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  $\alpha$  shares 93% aa identity with mouse CEBP  $\alpha$ .