Human CEBP α Antibody

Monoclonal Mouse IgG_{2B} Clone # 692716

Catalog Number: MAB7094

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	*E. coli*-derived recombinant human CEBP α Met1-Ala124 Accession # P49715
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

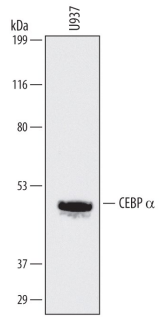
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunocytochemistry	8-25 µg/mL	See Below

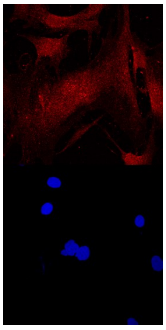
DATA

Western Blot



Detection of Human CEBP α by Western Blot. Western blot shows lysates of U937 human histiocytic lymphoma cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human CEBP α Monoclonal Antibody (Catalog # MAB7094) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for CEBP α at approximately 42 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



CEBP α in Human Mesenchymal Stem Cells. CEBP α was detected in immersion fixed human mesenchymal stem cells using Mouse Anti-Human CEBP α Monoclonal Antibody (Catalog # MAB7094) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red, upper panel; Catalog # NL007) and counterstained with DAPI (blue, lower panel). Specific staining was localized to cytoplasm and nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	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 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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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