Human CEBP ε Antibody

Monoclonal Mouse IgG_1 Clone # 695345

Catalog Number: MAB6726

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CEBP ε in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human CEBP alpha, beta, delta, gamma, or zeta is observed.
Source	Monoclonal Mouse IgG_1 Clone # 695345
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human CEBP ε Thr151-Arg210 Accession # Q15744
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.

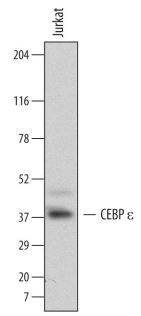
APPLICATIONS

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	0.5 µg/mL	See Below
Immunocytochemistry	8-25 µg/mL	See Below

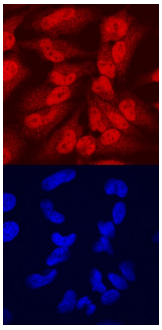
DATA

Western Blot



Detection of Human CEBP ε by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line. PVDF Membrane was probed with 0.5 µg/mL of Mouse Anti-Human CEBP ε Monoclonal Antibody (Catalog # MAB6726) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for CEBP ε at approximately 37 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 5.

Immunocytochemistry



CEBP ε in HeLa Human Cell Line. CEBP ε was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Mouse Anti-Human CEBP ε Monoclonal Antibody (Catalog # MAB6726) 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 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 epsilon (CEBP ε) is a 32 kDa basic-leucine zipper transcription factor that is expressed in myeloblasts, granulocytes, and eosinophils. Multiple isoforms of human CEBP ε are generated by alternate splicing and alternative translation initiation sites. All four isoforms contain the bZIP domain (aa 208-267) but exert different effects on myeloid differentiation. Full length CEBP ε and the 30 kDa isoform (aa 33-281) cooperate with c-Myb to activate the transcription of genes involved in myeloid differentiation. The 27 kDa isoform (which lacks aa 69-97) and the 14 kDa isoform (which begins at Met153) function as transcriptional repressors in eosinophils. Within aa 151-210, human CEBP ε shares 93% amino acid sequence identity with mouse and rat CEBP ε, respectively.

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