Human/Mouse EBF-1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF5165

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects endogenous human and mouse EBF-1 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant mouse EBF-1 Arg416-Ser520 Accession # Q07802
Formulation	No Formulation Info in Bulk Inventory See Certificate of Analysis for details.

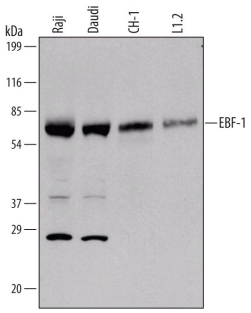
APPLICATIONS

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	2 µg/mL	See Below

DATA

Western Blot



Detection of Human/Mouse EBF-1 by Western Blot. Western blot shows lysates of Raji human Burkitt's lymphoma cell line, Daudi human Burkitt's lymphoma cell line, and CH-1 mouse B cell lymphoma cell line, and L1.2 mouse pro-B cell line. PVDF membrane was probed with 2 µg/mL of Human/Mouse EBF-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5165) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for EBF-1 at approximately 70 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
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 from date of receipt, 2 to 8 °C, reconstituted. ● 6 months from date of receipt, -20 to -70 °C, reconstituted.

BACKGROUND

EBF-1 (Early B cell Factor 1; also OLF1 and COE1) is a 65-70 kDa member of the COE family of transcription factors. Although expressed in adipocytes and neurons, it is best studied in B cells where IL-7 acts to promote EBF-1 in pre-proB cells, leading to proB stage development. Mouse EBF-1 is 591 amino acids (aa) in length. It contains one DNA-binding region with an embedded zinc-finger motif (aa 51-235), a dimerization segment between aa 370-430, and a Pro/Ser-rich transactivation domain (aa 462-550). EBF-1 either homodimerizes, or heterodimerizes with EBF-2 and -3. There is an alternate start site at Met134, and an isoform that shows a one aa substitution for aa 252-259. Over aa 416-520, mouse EBF-1 shows absolute aa identity to the equivalent sequence in rat and human EBF-1.