

Human TCF-12/HTF4 Antibody

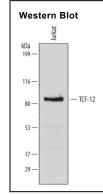
Monoclonal Mouse IgG_{2B} Clone # 690124 Catalog Number: MAB6928

DESCRIPTION				
Species Reactivity	Human			
Specificity	Detects human TCF-12/HTF4 in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human TCF1, -2, -3, or -5 is observed.			
Source	Monoclonal Mouse IgG _{2B} Clone # 690124			
Purification	lgM-specific Affinity-purified from hybridoma culture supernatant			
Immunogen	E. coli-derived recombinant human TCF-12/HTF4 Met108-Glu521 Accession # Q99081			
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 either lyophilized or as a 0.2 µm filtered solution in PBS.			

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

DATA



Detection of Human TCF-12/HTF4 by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line. PVDF membrane was probed with 1 μ g/mL of Mouse Anti-Human TCF-12/HTF4 Monoclonal Antibody (Catalog # MAB6928) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for TCF-12/HTF4 at approximately 85 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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	Reconstitution	Sterile F

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

TCF-12 (transcription factor 12), also called HTF4, bHLHb20 and HEB, is a 682 amino acid (aa) DNA binding protein of the E protein family of helix-loop-helix (HLH) transcription factors. E proteins, including TCF-12 and E2A, mediate lymphocyte differentiation and also function in neurogenesis. Homo-oligomerization is required for activity; hetero-oligomers are also formed. The region of human TCF-12 used as an immunogen excludes the HLH domain and shares 94% aa sequence identity with mouse and rat TCF-12. Potential isoforms of 706 and 648 aa contain an insertion of 24 aa after aa 396, while isoforms of 648, 624 and 512 aa show alternate Nterminal sequences that merge with the 682 aa form at aa 75, 75 and 194, respectively.

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