

Mouse TCF7/TCF1 Antibody

Monoclonal Rat IgG_{2B} Clone # 812145 Catalog Number: MAB8224

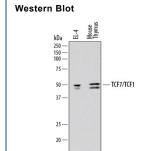
DESCRIPTION			
Species Reactivity	Mouse		
Specificity	Detects mouse TCF7/TCF1 in ELISA and Western Blot.		
Source	Monoclonal Rat IgG _{2B} Clone # 812145		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant mouse TCF7/TCF1 Gly61-Gly116 Accession # Q00417		
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.		

APPLICATIONS

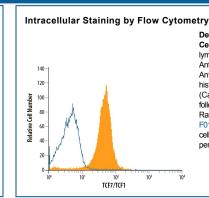
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample	
Western Blot	1 μg/mL	See Below	
Intracellular Staining by Flow Cytometry	2.5 μg/10 ⁶ cells	See Below	
CyTOF-ready	Ready to be labeled with conjugation.	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



Detection of Mouse TCF7/TCF1 by
Western Blot. Western blot shows lysates of
EL-4 mouse lymphoblast cell line and mouse
thymus tissue. PVDF membrane was probed
with 1 µg/mL of Rat Anti-Mouse TCF7/TCF1
Monoclonal Antibody (Catalog # MAB8224)
followed by HRP-conjugated Anti-Rat IgG
Secondary Antibody (Catalog # HAF005).
Specific bands were detected for TCF7/TCF1
at approximately 30-50 kDa (as indicated).
This experiment was conducted under
reducing conditions and using Immunoblot



Detection of TCF7/TCF1 in EL-4 Mouse Cell Line by Flow Cytometry. EL-4 mouse lymphoblast cell line was stained with Rat Anti-Mouse TCF7/TCF1 Monoclonal Antibody (Catalog # MAB8224, filled histogram) or isotype control antibody (Catalog # MAB0061, open histogram), followed by Allophycocyanin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0113). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

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

- 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

TCF7 (Transcription factor 7), also called TCF1 (T cell factor 1) is a member of the lymphoid enhancer binding factor family of proteins that is expressed in thymocytes and mature T cells. In resting cells, TCF family members are transcriptional repressors, and are 25-32 kDa in size. Following activation, the large TCF7/TCF1 isoform (isoform 2, chosen as 'canonical') predominates (419 amino acids, 42-50 kDa), and serves a transcriptional activator function. The use of an alternate start site at Met116 seems to characterize repressor isoforms. Within aa 61-116 of the large form, mouse TCF7/TCF1 shares 77% aa sequence identity with human TCF7/TCF1.

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