

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	<i>E. coli</i> -derived recombinant mouse TCF7/TCF1 Gly61-Gly116 Accession # Q00417
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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
Intracellular Staining by Flow Cytometry	0.25-1 µg/10 ⁶ cells	EL-4 mouse lymphoblast cell line fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005)

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

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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