

## Human TCF7L1/TCF3 Antibody

Monoclonal Mouse IgG<sub>2B</sub> Clone # 622782 Catalog Number: MAB61161

DESCRIPTION

Species Reactivity	Human		
Specificity	Detects human TCF7L1 in direct ELISAs. In direct ELISAs, 5-10% cross-reactivity with recombinant human (rh) TCF-4 (aa 102-516) and rhTCF-12 is observed. No cross-reactivity with rhTCF7L1 (aa 151-320), rhTCF7L2, rhTCF-1, -2, -3, -4 (aa 241-365), rhLEF-1, or recombinant mouse TCF-1 is observed.		
Source	Monoclonal Mouse IgG <sub>2B</sub> Clone # 622782		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	<i>E.coli</i> -derived recombinant human TCF7L1 Lys429-Ser581 Accession # Q9HCS4		
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		
Immunohistochemistry	8-25 µg/mL	See Below		

DATA			
Immunohistochem	istry TCF7L1 in Human Brain. TCF7L1 was detected in immersion fixed paraffinembedded sections of human brain (hippocampus) using Human TCF7L1 Monoclonal Antibody (Catalog # MAB61161) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (prown; Catalog # CTS02) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.		
PREPARATION AND S	TORAGE		
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	<ul> <li>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</li> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>		

## BACKGROUND

Transcription factor 7-like 1 (TCF7L1; also HMG box transcription factor 3, TCF-3) is a 63 kDa member of the TCF/LEF family of proteins. Human TCF7L1 is 588 amino acids (aa) in length and contains one HMG box DNA-binding domain (aa 346-414). Human TCF7L1 shares 95% aa sequence identity with mouse TCF7L1. TCF7L1 is expressed in hair follicles and skin keratinocytes and at lower levels in stomach epithelium. Functionally, it participates in the Wnt signaling pathway. TCF7L1 binds to DNA and acts as a repressor in the absence of CTNNB1 and as an activator in its presence. TCF7L1 is also necessary for the terminal differentiation of epidermal cells, the formation of keratohyalin granules, and the development of the barrier function of the epidermis.

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