Human TCF7L1/TCF3 Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 622782

Catalog Number: FAB61161R

100 µg

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, o
Source	Monoclonal Mouse IgG_{2B} Clone # 622782
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E.coli*-derived recombinant human TCF7L1 Lys429-Ser581 Accession # Q9HCS4
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.*

Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

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. 12 months from date of receipt, 2 to 8 °C as supplied

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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