

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ITFG1 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 936234
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human embryonic kidney cell line HEK293-derived human ITFG1 Met1-Ile566 Accession # Q8TB96
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

Western Blot 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

Integrin-alpha FG-GAP repeat-containing protein 1 (ITFG1), also known as T cell immunomodulatory protein (TIP), was initially identified using bioinformatics and high-throughput cell-based screening assays to isolate novel factors involved in T cell biology. A ubiquitously expressed 98 kDa glycoprotein, ITFG1 contains an N-terminal signal peptide and a C-terminal transmembrane domain flanking twelve potential N-linked glycosylation sites. Human and mouse T cells treated with ITFG1 in vitro secreted the cytokines IFN-γ, TNF-α and IL-10, while in vivo ITFG1 was protective in a mouse acute graft-versus-host disease (GVHD) model. Over amino acids (aa) 1-566, human ITFG1 shares 89% and 88% aa identity with mouse and rat ITFG1, respectively.

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