

#### DESCRIPTION

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                                            |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human ITFG1 in direct ELISAs.                                                            |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Mouse IgG <sub>2B</sub> Clone # 936234                                                |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from hybridoma culture supernatant                                       |
| <b>Immunogen</b>                                                                                                                                                                                        | Human embryonic kidney cell line HEK293-derived human ITFG1<br>Met1-Ile566<br>Accession # Q8TB96 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm              |
| <b>Formulation</b>                                                                                                                                                                                      | 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

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | 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-g, TNF-a 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.

#### PRODUCT SPECIFIC NOTICES

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