

DESCRIPTION

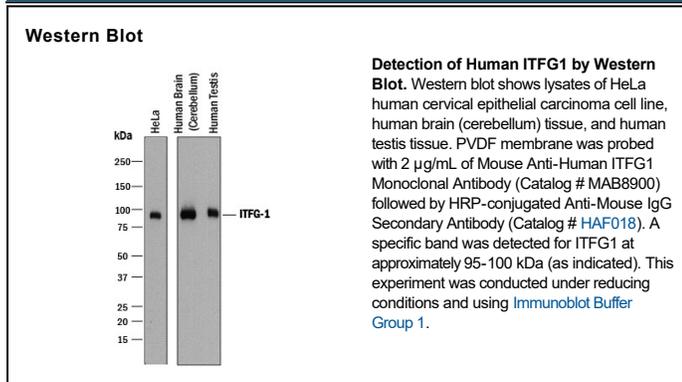
Species Reactivity	Human
Specificity	Detects human ITFG1 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 936234
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human embryonic kidney cell line HEK293-derived human ITFG1 Met1-Ile566 Accession # Q8TB96
Formulation	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
Western Blot	2 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
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	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.