Active Recombinant Human ITPRIPL1 Protein, Fc-tagged

Cat. No. ITPRIPL1-10974H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ITPRIPL1 Protein, Fc Tag is expressed from human 293 cells (HEK293). It contains AA His 25-Gly 103 (Accession # Q6GPH6). This protein carries a human IgG1 Fc tag at the C-terminus. Predicted N-terminus: His 25
Species	Human
Source	HEK293
ProteinLength	25-103 aa
Description	Inositol 1, 4, 5-triphosphate receptor interacting protein like 1 (ITPRIPL1) is a single transmembrane protein, exhibits normal testis-enriched expression and widespread overexpression in various human cancers. ITPRIPL1 is commonly found in tumors with low PD-L1 expression. ITPRIPL1 acts as a natural ligand for CD3 ε, evading immune surveillance, leading to decreased T cell activity and promoting tumor growth. Research has shown that inducing stable CD3E-NCK1 binding prevents CD3E-ZAP70 interaction, subsequently inhibiting downstream ERK-NFkB signaling cascade and calcium influx activation.
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Human ITPRIPL1 Protein, Fc Tag at 1 μg/mL (100 μL/well) can bind ITPRIPL1 antibody with a linear range of 0.001-0.125 μg/mL.
Molecular Mass	The protein has a calculated MW of 35.7 kDa. The protein migrates as 40-43 kDa

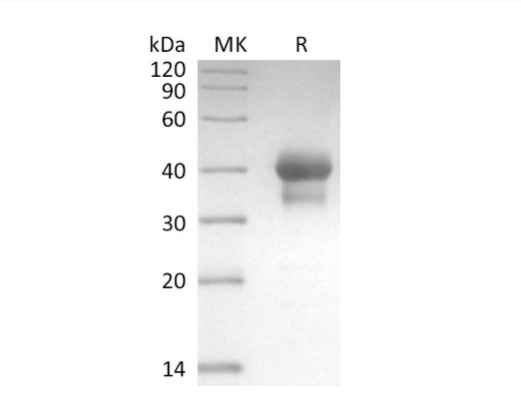
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	ITPRIPL1 inositol 1, 4, 5-trisphosphate receptor interacting protein-like 1 [Homo sapiens (human)]
Official Symbol	ITPRIPL1
Synonyms	ITPRIPL1; inositol 1, 4, 5-trisphosphate receptor interacting protein-like 1; inositol 1, 4, 5 triphosphate receptor interacting protein like 1, KIAA1754 like, KIAA1754L; inositol 1, 4, 5-trisphosphate receptor-interacting protein-like 1; inositol 1, 4, 5-triphosphate receptor interacting protein-like 1; inositol 1, 4, 5-triphosphate receptor-interacting protein-like 1; KIAA1754L;
Gene ID	150771

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

mRNA Refseq	NM_001008949
Protein Refseq	NP_001008949
MIM	620821
UniProt ID	Q6GPH6
SDS-PAGE.	

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA