

Recombinant Human ITPRIPL1/KIAA1754L/CD3L1 Protein

Catalog No.: RP01963 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	150771	Q6GPH6

Tags

C-His

Synonyms

ITPRIPL1; KIAA1754L; Inositol 1;4;5-trisphosphate receptor-interacting protein-like 1

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
10.13 kDa	10-15KDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

ITPRIPL1/KIAA1754L/CD3L1 is a transmembrane protein with broad expression in the testis associated with immune evasion. In fact, ITPRIPL1 is a molecule specifically expressed in immune privileged tissues, "hot" tumors without PD-L1 expression, and non-responding tumors to PD-1 blockade therapy. ITPRIPL1 has been shown to impair T cell function in vitro and in vivo through CD3e with experimental evidence supporting a negative correlation between ITPRIPL1 expression level in antigen-presenting cells and T cell cytotoxicity. ITPRIPL1 was a hypermethylated-low expression gene in breast cancer and acted as an independent biomarker for the prognosis of lung adenocarcinoma by using bioinformatics methods. Thus, targeting the ITPRIPL1-CD3e axis, especially in PD-1 - PD-L1 negative patients, is a promising therapeutic strategy to reduce immune evasion.

Basic Information

Description

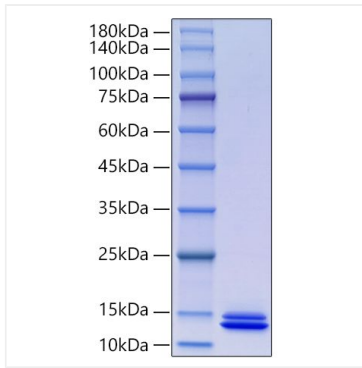
Recombinant Human ITPRIPL1/KIAA1754L/CD3L1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (His25-103Gly) of Human ITPRIPL1/KIAA1754L/CD3L1 (Accession #NP_001008949.1) fused with a His tag at the C-terminus.

Bio-Activity

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human
ITPRIPL1/KIAA1754L/CD3L1 Protein was
determined by SDS-PAGE under reducing
conditions with Coomassie Blue.