

Recombinant Human ITPRIPL1/KIAA1754L/CD3L1 Protein

Catalog No.: RP01963

Sequence Information

Species **Gene ID**
Human 150771

Swiss Prot **Tags**
Q6GPH6 C-His

Synonyms

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

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as determined by SDS-PAGE.

Calculated MW **Observed MW**
10.13 kDa 10-15 kDa

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.

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.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

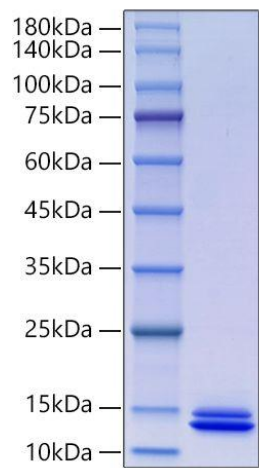
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Validation Data



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