

# Recombinant Human ITPRIPL1/KIAA1754L/CD3L1 Protein

Catalog No.: RP01961 Recombinant

## **Sequence Information**

**Species Gene ID Swiss Prot** Human 150771 Q6GPH6

**Tags** C-hFc&His

**Synonyms** 

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

## **Product Information**

Source Purification

HEK293 cells ≥ 90 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

36.07 kDa 40-45 kDa

### Endotoxin

 $< 0.01 \; \text{EU/}\mu\text{g}$  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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

#### **Contact**

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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 antigenpresenting 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 HumanITPRIPL1/KIAA1754L/CD3L1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (His25-103Gly) of Human ITPRIPL1/KIAA1754L/CD3L1 Protein (Accession #NP\_001008949.1) fused with a hFc&His tag at the C-terminus.

## **Bio-Activity**

#### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

#### 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  $^{\circ}$ C for 3 months, at 2-8  $^{\circ}$ C for up to 1 week.

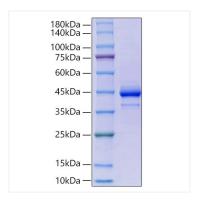
Avoid repeated freeze/thaw cycles.

#### **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.