

ITPRIPL1 recombinant protein

ITPRIPL1 Protein, Human, Recombinant (ECD, His Tag), HPLC-verified

CATALOG #
AAA259194

HOST
HEK293 Cells

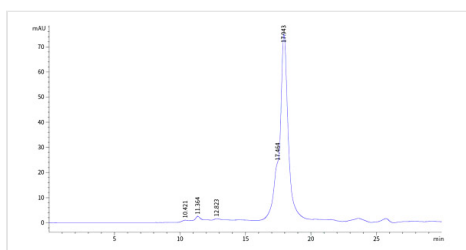
PRODUCT SYNONYMS

ITPRIPL1; ITPRIPL1 Protein; Human; Recombinant (ECD; His Tag); HPLC-verified; inositol 1; 4; 5-trisphosphate receptor interacting protein-like 1; KIAA1754L Protein; ITPRIPL1 recombinant protein

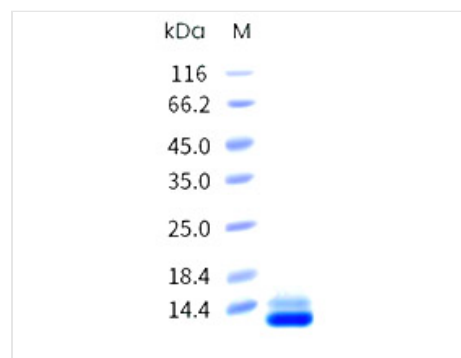
PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>= 95% as determined by SDS-PAGE. = 90% as determined by SEC-HPLC.
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Species	Human
Predicted N Terminal	His 33
Endotoxin	<1.0 EU per ug protein as determined by the LAL method.
Protein Construction	A DNA sequence encoding the Human ITPRIPL1 (AAH34503.2)(His33-Gly111) was expressed with a polyhistidine tag at the C-terminus.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for ITPRIPL1 recombinant protein	Inositol 1,4,5-trisphosphate Receptor Interacting Protein-Like 1 or ITPRIPL1 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.
References	1. Shouyan Deng, et al. The ITPRIPL1- CD3epsilon axis: a novel immune checkpoint controlling T cells activation. bioRxiv, 2022. doi: 10.1101/2022.02.25.481189 2. Zhong, X. and Zhong, G. Prognostic biomarker identification and tumor classification in breast cancer patients by methylation and transcriptome analysis. FEBS Open Bio, 2021. doi: 10.1002/2211-5463.13211

NCBI AND UNIPROT INFORMATION

Molecular Weight	The recombinant Human ITPRIPL1 consists of 90 amino acids and predicts a molecular mass of 10.75 kDa. It migrates as an approximately 13.2 kDa band in SDS-PAGE under reducing conditions.
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/itpripl1-recombinant-protein-hek293-cells/259194>