

ALPPL2/ALPG recombinant protein

Recombinant Mouse ALPPL2/ALPG Protein (His Tag), HPLC-verified

CATALOG #
AAA259273

HOST
HEK293 Cells

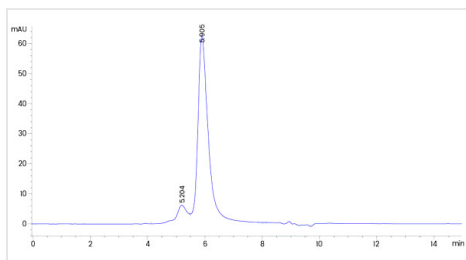
PRODUCT SYNONYMS

ALPPL2/ALPG; Recombinant Mouse ALPPL2/ALPG Protein (His Tag); HPLC-verified; ALPPL2/ALPG recombinant protein

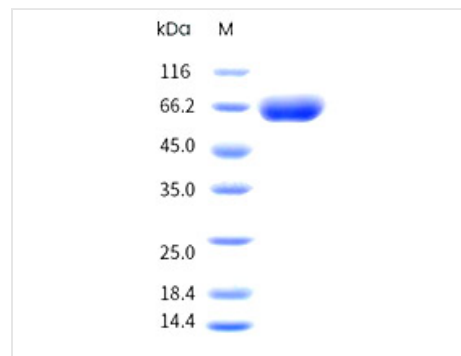
PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>= 95% as determined by SDS-PAGE. = 90% as determined by SEC-HPLC.
Form/Format	Lyophilized from sterile PBS, 5% Trehalose, 10% Glycerol, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Species	Mouse
Predicted N Terminal	Val 19
Endotoxin	<1.0 EU per ug protein as determined by the LAL method.
Protein Construction	A DNA sequence encoding the Mouse ALPG (P24823)(Met1-Ser502) 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 ALPPL2/ALPG recombinant protein	Alkaline phosphatase, placental-like 2 (ALPPL2 or ALPG) is a (GPI)-anchored membrane protein and a member of the human alkaline phosphatase family. Not expressed in normal tissue except for the trophoblast, ALPPL2 exhibits a rare tumor specificity with immunohistochemistry (IHC) on tumor tissue arrays revealing its expression in 43% of mesotheliomas, 60% of ovarian cancers, 36% of pancreatic cancers, 18% of gastric cancers, and 100% of seminomas. Furthermore, expression of ALPPL2 was significantly increased in gastric adenocarcinoma (P?0.01), while RNA interference-mediated ALPPL-2 knockdown identified novel tumor-associated functions in pancreatic cancer cell growth and invasion. Not only is ALPPL2 suited for therapy development against ALPPL2-expressing tumors, but it has also been identified as a prominent naive-specific surface marker for pluripotency-essential for both the establishment and maintenance of naïve pluripotency.
References	1. Yang Su, et al. ALPPL2 Is a Highly Specific and Targetable Tumor Cell Surface Antigen. Cancer Res, 2020. doi: 10.1158/0008-5472.CAN-20-1418 2. Axel, et al. Enhanced Solid Tumor Recognition and T cell Stemness with SynNotch CAR Circuits. bioRxiv, 2021. doi: 10.1101/2021.01.06.425642 3. Shuang Liu, et al. High expression of ALPPL2 is associated with poor prognosis in gastric cancer, Human Pathology, 2019. doi: 10.1016/j.humpath.2018.11.019 4. Pooja Dua, et al. Alkaline Phosphatase ALPPL-2 Is a Novel Pancreatic Carcinoma-Associated Protein. Cancer Res 2013. doi: 10.1158/0008-5472.CAN-12-3682 5. Bi, Yan, et al. Identification of ALPPL2 as a naive pluripotent state-specific surface protein essential for human naive pluripotency regulation. Cell Reports, 2020. doi: 10.1016/j.celrep.2020.02.090

NCBI AND UNIPROT INFORMATION

NCBI GI #	124244098
NCBI GeneID	11650
NCBI Accession #	NP_031459.3
NCBI GenBank Nucleotide #	NM_007433.3
UniProt Accession #	P24823; Q3ULC9
Molecular Weight	57,202 Da
NCBI Official Full Name	alkaline phosphatase, placental-like
NCBI Official Synonym Full Names	alkaline phosphatase, placental-like 2
NCBI Official Symbol	Alpl2
NCBI Official Synonym Symbols	EAP; Akp5; C77216; D1Ert816e
NCBI Protein Information	alkaline phosphatase, placental-like
UniProt Protein Name	Alkaline phosphatase, placental-like
UniProt Gene Name	Alpl2
UniProt Synonym Gene Names	Akp5; Eap; EAP
UniProt Entry Name	PPBN_MOUSE

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.

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Online datasheet: <https://stage.aaabiotech.com/alpl2-recombinant-protein-hek293-cells/259273>