

Acid Phosphatase 6, Lysophosphatidic (ACP6) Active Protein | ACP6 active protein

Active Acid Phosphatase 6, Lysophosphatidic (ACP6)

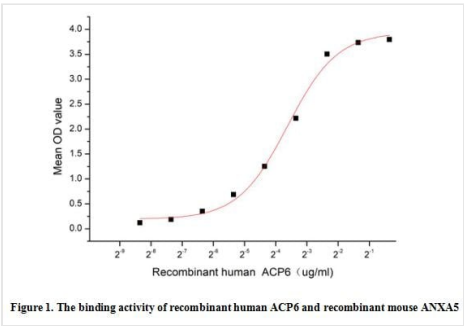
CATALOG # AAA161908	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Acid Phosphatase 6; Lysophosphatidic (ACP6); Active Acid Phosphatase 6; Lysophosphatidic; LPAP; ACPL1; PACPL1; Acid phosphatase-like protein 1; Lysophosphatidic acid phosphatase type 64; ACP6 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Met1~Glu42 8
Applicable Applications for ACP6 active protein	Activity Assay, Cell Culture
Species	Human
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	6
Research Area	Enzyme & Kinase
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

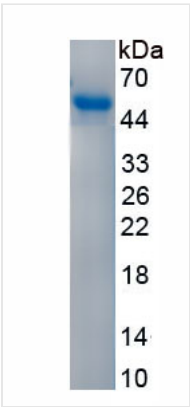


Bioactivity

Lysophosphatidic acid phosphatase type 6 (ACP6), is a 44-47 kDa monomeric member of the histidine acid phosphatase family of proteins. ACP6 is highly expressed in kidney, heart, small intestine, muscle, liver, prostate, testis, ovary and exists as two isoforms as a result of alternative splicing events. It plays a role in regulating lipid metabolism that hydrolyzes LPA to monoacylglycerol (MAG) and phosphate. Annexin V (ANXA5) binds to phospholipid bilayers, forming two-dimensional crystals that block the phospholipids from availability for coagulation enzyme reactions. A functional binding ELISA assay was conducted to detect the interaction of recombinant human ACP6 and recombinant mouse ANXA5. Briefly, ACP6 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to ANXA5-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-ACP6 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37 degree C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human ACP6 and recombinant mouse ANXA5 was shown in Figure 1, the EC50 for this effect is 0.08 ug/mL.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for ACP6 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	523498731
NCBI GeneID	51205
NCBI Accession #	NP_057445.4
NCBI GenBank Nucleotide #	NM_016361.4
UniProt Accession #	Q9NPH0; Q59G61; Q5T490; Q6IAQ3; Q7LG81; Q9UIG6
Molecular Weight	30,790 Da
NCBI Official Full Name	lysophosphatidic acid phosphatase type 6
NCBI Official Synonym Full Names	acid phosphatase 6, lysophosphatidic
NCBI Official Symbol	ACP6
NCBI Official Synonym Symbols	LPAP; ACPL1; PACPL1
NCBI Protein Information	lysophosphatidic acid phosphatase type 6
UniProt Protein Name	Lysophosphatidic acid phosphatase type 6
UniProt Gene Name	ACP6
UniProt Synonym Gene Names	ACPL1; LPAP
UniProt Entry Name	PPA6_HUMAN

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/e-coli-active-protein/acid-phosphatase-6-lysophosphatidic-acp6/161908>