

## LPAL2 Protein, Human (HEK293, Fc)

<b>Cat. No.:</b>	HY-P77066
<b>Synonyms:</b>	Putative apolipoprotein(a)-like protein 2; Apo(a)-like protein 2; APOARGC
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q16609 (G22-A132)
<b>Gene ID:</b>	80350
<b>Molecular Weight:</b>	Approximately 41-44 kDa due to the glycosylation

### PROPERTIES

<b>AA Sequence</b>	<p>G P S V Q E C Y H S      N G Q S Y R G T Y F      T T V T G R T C Q A      W S S M T P H Q H S</p> <p>R T P E K Y P N D G      L I S N Y C R N P D      C S A G P W C Y T T      D P N V R W E Y C N</p> <p>L T R C S D D E G T      V F V P L T V I P V      P S L E D S F I Q V      A</p>
<b>Biological Activity</b>	Measured by its ability to inhibit the proliferation of Huh-7 cells. The ED50 for this effect is 4.719 µg/mL, corresponding to a specific activity is 2.119×10 <sup>3</sup> units/mg.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>LPAL2 is a Pseudogene. LPAL2 Protein modulates tumor growth, metastasis and stemness phenotypes of HCC cell lines by modulating MMP9 expression. LPAL2 is a tumor-suppressor lncRNA in HCC<sup>[1]</sup>. Besides, LPAL2 is also associated with thyroid eye disease. Specifically, LPAL2/miR-1287-5p axis modulates TGF-β1-induced increases in cell adhesion factor levels and thyroid eye disease (TED) orbital fibroblast activation through EGFR/AKT signaling. In TED orbital tissues, expression of the lncRNA LPAL2 is upregulated and positively correlated with ICAM-1 and ICAM-4 expression. LPAL2 directly targets miR-1287-5p to inhibit its expression<sup>[2]</sup>. LPAL2 is also a biomarker in malignant cholangiocytes<sup>[3]</sup>.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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