

## Product datasheet

# Recombinant Human Apolipoprotein A V/APOA5 ab113861

[1 Image](#)

### Description

---

|                                   |   |
|-----------------------------------|---|
| <b>Product name</b>               | Recombinant Human Apolipoprotein A V/APOA5  |
| <b>Purity</b>                     | > 70 % SDS-PAGE.<br>Purity determined by densitometric image analysis   |
| <b>Endotoxin level</b>            | < 1.000 Eu/µg   |
| <b>Expression system</b>          | HEK 293 cells   |
| <b>Accession</b>                  | <b><u>Q6Q788</u></b>  |
| <b>Protein length</b>             | Full length protein   |
| <b>Animal free</b>                | No  |
| <b>Nature</b>                     | Recombinant   |
| <b>Species</b>                    | Human   |
| <b>Sequence</b>                   | RKGFWDYFSQ TSGDKGRVEQ IHQQKMAREP<br>ATLKDSLEQD LNNMNKFLEK LRPLSGSEAP<br>RLPQDPVGMR RQLQEELVEV KARLQPYMAE<br>AHELVGWNLE GLRQQLKPYT MDLMEQVALR<br>VQELQEQLRV VGEDTKAQLL GGVDEAWALL<br>QGLQSRVVHH TGRFKELFHP YAESLVSGIG<br>RHVQELHRSV APHAPASPAR LSRCVQVLSR<br>KLTLKAKALH ARIQQNLDQL REELSRFAG<br>TGTEEGAGPD PQMLSEEVQR RLQAFRQDTY<br>LQIAAFTRAI DQETEEVQQQ LAPPPPGHSA<br>FAPEFQQTDS GKVLSKLQAR LDDLWEDITH<br>SLHDQGHSHL GDPAAADYKD DDDK |
| <b>Predicted molecular weight</b> | 40 kDa including tags   |
| <b>Amino acids</b>                | 24 to 366   |
| <b>Tags</b>                       | DDDDK tag C-Terminus  |

### Specifications

---

Our **Abpromise guarantee** covers the use of **ab113861** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

|                         |  |
|-------------------------|--|
| <b>Applications</b>     | SDS-PAGE<br>Western blot<br>ELISA                          |
| <b>Form</b>             | Lyophilized  |
| <b>Additional notes</b> | This product was previously labelled as Apolipoprotein A V |

## Preparation and Storage

---

|                              |  |
|------------------------------|--|
| <b>Stability and Storage</b> | Shipped at 4°C. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.<br>Constituents: 0.24% Tris, 0.29% Sodium chloride |
| <b>Reconstitution</b>        | Add deionized water (200 µl) to prepare a working stock solution of 0.5 mg/mL  |

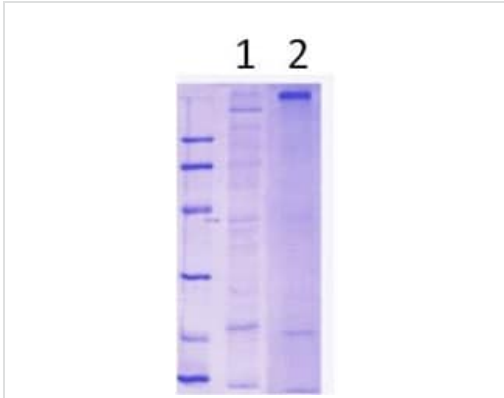
## General Info

---

|   |   |
|---|---|
| <b>Function</b>                         | Minor apolipoprotein mainly associated with HDL and to a lesser extent with VLDL. May also be associated with chylomicrons. Important determinant of plasma triglyceride (TG) levels by both being a potent stimulator of apo-CII lipoprotein lipase (LPL) TG hydrolysis and a inhibitor of the hepatic VLDL-TG production rate (without affecting the VLDL-apoB production rate) (By similarity). Activates poorly lecithin:cholesterol acyltransferase (LCAT) and does not enhance efflux of cholesterol from macrophages.  |
| <b>Tissue specificity</b>               | Liver and plasma.   |
| <b>Involvement in disease</b>           | Defects in APOA5 are a cause of susceptibility to familial hypertriglyceridemia (FHTR) [MIM:145750].mFamilial hypertriglyceridemia is a common inherited disorder in which the concentration of very low density lipoprotein (VLDL) is elevated in the plasma. This leads to increased risk of heart disease, obesity, and pancreatitis.<br>Defects in APOA5 are a cause of hyperlipoproteinemia type 5 (HLPP5) [MIM:144650]. HLPP5 is characterized by increased amounts of chylomicrons and very low density lipoprotein (VLDL) and decreased low density lipoprotein (LDL) and high density lipoprotein (HDL) in the plasma after a fast. Numerous conditions cause this phenotype, including insulin-dependent diabetes mellitus, contraceptive steroids, alcohol abuse, and glycogen storage disease type 1A (GSD1A) [MIM:232200]. |
| <b>Sequence similarities</b>            | Belongs to the apolipoprotein A1/A4/E family.   |
| <b>Post-translational modifications</b> | Phosphorylation sites are present in the extracellular medium.  |
| <b>Cellular localization</b>            | Secreted.   |

## Images

---



SDS-PAGE - Recombinant Human Apolipoprotein A V/APOA5 (ab113861)

12% SDS-PAGE separation of Human Apolipoprotein A V/APOA5

1.reduced and boiled sample, 5µg/lane

2.non-reduced and non-boiled sample, 5µg/lane

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors