

# Anti-Apolipoprotein A1 Antibody

## RT1046



|                            |   |
|----------------------------|---|
| <b>Product Type:</b>       | Rabbit polyclonal IgG, primary antibodies |
| <b>Species reactivity:</b> | Human, Mouse, Rat                         |
| <b>Applications:</b>       | WB, IP, IF                                |
| <b>Molecular Wt:</b>       | 28 kDa                                    |

**Description:** Apolipoproteins are protein components of plasma lipoproteins. The human apoA-I gene encodes a single chain, 243 amino acid protein which promotes cholesterol efflux from tissues to the liver for excretion. ApoA-I is the major protein component of high density lipoprotein (HDL) in the plasma. ApoA-I can function as a cofactor for lecithin cholesterolacyltransferase (LCAT), which is responsible for the formation of most plasma cholesteryl esters. The human apoA-II gene encodes the second most abundant protein of HDL particles, where it influences plasma levels of free fatty acids. The human apoA-IV gene encodes a 396 amino acid preprotein, which after proteolytic processing is secreted from the intestine in association with chylomicron particles. ApoA-IV is a potent activator of LCAT in vitro. The human apoA-V gene encodes a 366 amino acid protein that is believed to be an important determinant of plasma triglyceride levels.

|                              |                         |
|------------------------------|-------------------------|
| <b>Immunogen:</b>            | peptide                 |
| <b>Positive control:</b>     | VLDL, HDL, 293T.        |
| <b>Subcellular location:</b> | Secreted                |
| <b>Database links:</b>       | SwissProt: P02647 Human |

### Recommended Dilutions:

|           |   |
|-----------|---|
| <b>WB</b> | 1:100-1,000   |
| <b>IP</b> | 1-2 ug per 100-500 ug of total protein (1ml of cell lysate) |
| <b>IF</b> | 1:50-1:500  |

**Storage Buffer:** 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**Storage Instruction:** Store at +4°C

**Purity:** Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

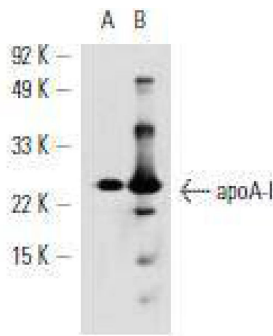
Orders:0086-571-88062880

Technical:0086-571-89986345

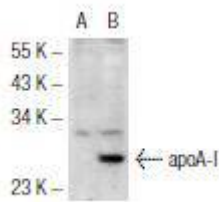
Service mail:support@huabio.cn

华安生物  
HUABIO  
www.huabio.cn

## Images



**Fig1:** Western blot analysis of apoA-I expression from purified human VLDL (A) and HDL (B).



**Fig2:** Western blot analysis of apoA-I expression in non-transfected (A) and mouse apoA-I-transfected (B) 293T whole cell lysates.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. Jun, J.Y., et al. 2011. Spontaneously diabetic Ins2(+/-Akita):apoE-deficient mice exhibit exaggerated hypercholesterolemia and atherosclerosis. *Am. J. Physiol. Endocrinol. Metab.* 301: E145-E154.
2. Liu, J., et al. 2012. IMB2026791, a xanthone, stimulates cholesterol efflux by increasing the binding of apolipoprotein A-I to ATP-binding cassette transporter A1. *Molecules* 17: 2833-2854.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物  
HUABIO  
www.huabio.cn