

BP912HRP**Polyclonal Antibody to Apolipoprotein A I / APO AI - HRP****Alternate names:**

APOA1, Apo-AI, ApoA-I, ApoAI

Quantity:

0.2 mg

Concentration:

1.0 mg/ml (OD280)

Background:

Apolipoprotein A I promotes cholesterol efflux from tissues to the liver for excretion. Apolipoprotein A I is the major protein component of high density lipoprotein (HDL) in the plasma. Synthesized in the liver and small intestine, it consists of two identical chains of 77 amino acids; an 18 amino acid signal peptide is removed co-translationally and a 6 amino acid propeptide is cleaved post-translationally. Apolipoprotein A I is a cofactor for lecithin cholesterolacyltransferase (LCAT) which is responsible for the formation of most plasma cholesteryl esters. Defects in the Apolipoprotein A I gene are associated with HDL deficiency and Tangier disease. The therapeutic potential of apoA-I has been recently assessed in patients with acute coronary syndromes, using a recombinant form of a naturally occurring variant of apoA-I. The availability of recombinant normal apoA-I should facilitate further investigation into the potential usefulness of apoA-I in preventing atherosclerotic vascular diseases.

Uniprot ID:[P02647](#)**NCBI:**[NP_000030.1](#)**GenID:**[335](#)**Host:**

Sheep

Immunogen:

Human Apolipoprotein A1

Format:**State:** Liquid purified IgG**Purification:** Affinity chromatography**Buffer System:** PBS containing 50% glycerol, 0.5% BSA and 0.01% Thimerosal.**Label:** HRP**Applications:**

ELISA (1/1,000 - 1/5,000). Can be used in a two site assay with BM785 bound to the microtitre plate and BP912HRP for detection. Higher titers can be used when TMB is used as the substrate).

Western blot (1/100 -1/600).

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This antibody recognizes Apo-A1 and HDL.

It does not react with other plasma proteins, including albumin or immunoglobulin fractions. Does not cross react with apolipoprotein B, LDL and VLDL.

Species: Human.

Other species not tested.

Storage:

Store undiluted at 2-8°C for one month or at -20°C for longer. Avoid repeated freezing and thawing.

Shelf life: one year from despatch.