

## Product datasheet for **BP912HRP**

### Apolipoprotein A I (APOA1) Sheep Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	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).
Reactivity:	Human
Host:	Sheep
Clonality:	Polyclonal
Immunogen:	Human Apolipoprotein A1
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.
Formulation:	PBS containing 50% glycerol, 0.5% BSA and 0.01% Thimerosal. Label: HRP State: Liquid purified IgG
Concentration:	lot specific
Purification:	Affinity chromatography
Conjugation:	HRP
Storage:	Store undiluted at 2-8°C for one month or at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	apolipoprotein A1
Database Link:	<a href="#">Entrez Gene 335 Human P02647</a>



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**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.

**Synonyms:**

APOA1, ApoA-I, Apo-AI, ApoAI