



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Goat Anti Serum Amyloid A

Catalog No.
MD-19-0025

Species
Human

Isotype
Goat IgG

Background

The serum amyloid A (SAA) family of proteins is encoded by multiple genes, which display allelic variation and a high degree of homology in mammals. The four members of the SAA gene family are clustered on human chromosome 11p15.1. Three SAA genes are differentially expressed and encode small apolipoproteins. SAA1 and SAA2 encode the acute phase SAAs (A-SAAs), and SAA4 encodes the constitutively expressed SAA (C-SAA). A fourth locus, SAA3 is a pseudogene that contains two C/EBP-binding sites and a third site, which interacts with SAA3 enhancer factor. Human SAA proteins are a group of 12-14 kDa apolipoproteins found predominantly in the high-density lipoprotein (HDL) fraction of plasma. SAA is a major acute-phase protein and precursor to amyloid A protein, which is the major constituent of the fibril deposits of reactive amyloidosis. SAA is secreted in large amounts by the liver during microbial infections or inflammatory diseases.

Applications

Table Summary of antibody applications and working conditions

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA			.	
Western Blotting			.	
Immunohistology			.	
Immunoblotting			.	
RIA			.	
Immunofluorence staining			.	
Neutralization			.	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Preparation

Immunogen is Purified human SAA Protein. This product is purified by sodium sulfate precipitation, and is 0.2µm filtered.

Specificity

No reactivity against normal human plasma, Apo AI and Apo AII antigens. Single precipitin band against serum based SAA calibrator .

Formulation

8.4g/dL total protein by Biuret (Cobas-Mira) method (0.21mg/ml Specific activity by Becker) in Tris saline, pH 7.4 with 0.1% Sodium azide.

Storage

Short-term store at 2-8°C. Long term, aliquot and store at -20° C.

Avoid multiple freeze/thaw cycles.

Centrifuge before opening to ensure complete recovery of vial contents.

References

- 1) Kluge-Beckerman, B., Long, G.I. and Benson, M.D. 1986. DNA sequence evidence for polymorphic forms of human serum amyloid (SAA). *Biochem. Genet.* 24: 795-803.
- 2) Kluge-Beckerman, B., Dwulet, F.E. and Benson, M.D. 1988. Human serum amyloid A. Three hepatic mRNAs and the corresponding proteins in one person. *J. Clin. Invest.* 82: 1670-1675.
- 3) Beach, C.M., De Beer, M.C., Sipe, J.D., Loose, L.D. and De Beer, F.C. 1992. Human serum amyloid A protein. Complete amino acid sequence of a new variant. *Biochem. J.* 282: 615-620.

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