

Catalog #: LHP0061 Lot #:* 1485574

***Note:** A letter at the end of the lot number signifies an additional packaging of this same lot.

Product Use

This kit is comprised of components for the measurement of human SAA in serum, plasma, or tissue culture supernatant. The assay may be run alone or in combination with other singleplex bead kits from Life Technologies[™]. Buffer reagents needed to complete the reaction are sold separately under Catalog #LHB0001. These reagents are intended for use in the **Luminex[®] 100[™]/200[™]** and the **FLEXMAP 3D[®] System**. **This kit is configured for research use only and is not to be used in diagnostic procedures.**

Reagents Provided

Hu SAA

1. **Part #:** LM169 **Description:** Antibody Bead Concentrate (10X) **Lot:** 1485576 **Size:** 0.25 mL-100 tests

Bead Region: 33

Form: 0.25 mL 10X bead concentrate solution in storage buffer. Contains 0.05% sodium azide as a preservative.

Storage: **Light sensitive material.** Store at 2 to 8°C, in the dark, until the expiration date indicated on the kit.

Hu SAA

2. **Part #:** BN169 **Description:** Biotinylated Ab Conc. (10X) **Lot:** 1485575 **Size:** 1 mL-100 tests

Form: 1 mL of a 10X stock of Biotinylated Antibody Concentrate in Biotin Diluent. Contains 0.1% sodium azide as preservative. Concentration of antibody is matched to this lot of beads. Do not mix lots of coated beads and detection antibody.

Storage: Store at 2 to 8°C until the expiration date indicated on the kit.

3. **Part #:** SM065 **Description:** Hu Metabolic II Standard **Lot:** 1071652 **Size:** 2 Vials

Form: Lyophilized. The proteins in this standard have been calibrated against the masses of highly purified recombinant proteins, with the respective Life Technologies[™] ELISA kits, and NIBSC calibration standards (if available). Contains 0.1% sodium azide as a preservative.

Storage: Store at 2 to 8°C. Use within 1 hour after reconstitution. Discard immediately after use.

Concentration of Reconstituted Standard**:

SAA (4,430 ng/mL) Resistin (22.8 ng/mL)

****Important note:** The concentrations of reconstituted standard are lot-specific. Please verify all concentration values entered in data analysis software.

Reconstitution: Reconstitute with 1.0 mL Assay Diluent when measuring SAA in serum or plasma samples. For other sample types, such as tissue culture supernatants, reconstitute the standard in 1.0 mL of a solution consisting of 50% Assay Diluent + 50% of sample matrix. Allow standard to rehydrate for approximately 10 minutes before further dilution.

Recommended Starting Concentration for Standard Curve: Upon reconstitution, the starting concentration of the standard is the value cited above. Make serial 1:3 dilutions in Assay Diluent (serum/plasma samples) or other appropriate matrix. Use 100 µL per assay. If establishing a multiplex assay, this standard can be mixed with other cytokine standard in a multiplex assay format.

4. **Part #:** DA02A **Description:** Assay Diluent **Lot:** 988820C **Size:** 30 mL

Form: 30 mL of Assay Diluent. Contains 0.1% sodium azide as preservative.

Storage: Store at 2 to 8°C.

****RECOMMENDED SAMPLE DILUTION****

When working with serum or plasma samples, it is recommended that the samples be diluted with the Assay Diluent provided in the singleplex bead kit. An initial dilution of 1:25 is recommended, although further dilution may be required.

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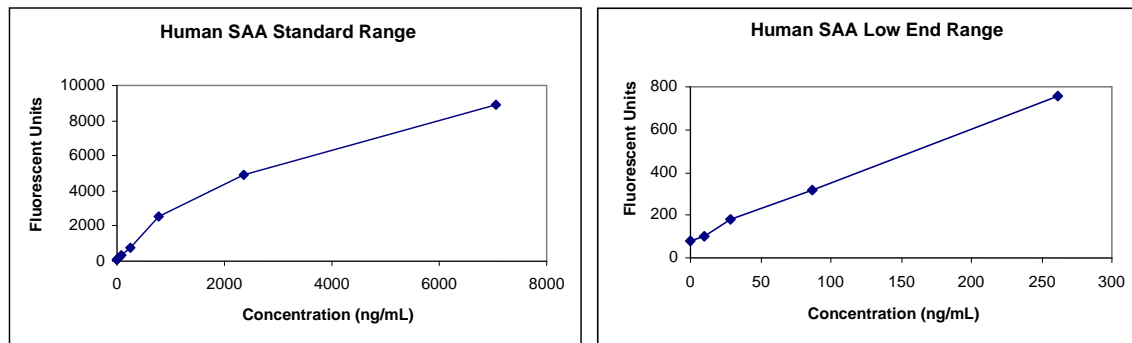
Human SAA Singleplex Bead Kit

Technical Data Sheet

Performance Characteristics

Analytical Sensitivity: The minimum detectable dose of human SAA is < 5 ng/mL. This was determined by adding two standard deviations to the mean FI obtained when the zero standard was assayed 16 times.

Typical Standard Curve



Specificity*: Buffered solutions of a panel of substances at 1.4-105.8 ng/mL were assayed with the Life Technologies™ Human SAA Singleplex Bead Kit. The following substances were tested and all were found to have no cross-reactivity: Human Adiponectin, CRP, DR5, EGF, Eotaxin, FGFb, G-CSF, GLP-1, GM-CSF, Haptoglobin, HGF, IFN- α , IFN- γ , IL-1 α , IL-1 β , IL-1RA, IL-2, IL-2R, IL-3, IL-4, IL-5, IL-6, IL-6R, IL-7, IL-8, IL-10, IL-12, IL-13, IL-15, IL-16, IL-17, Insulin, IP-10, Leptin, MCP-1, MIP-1 α , MIP-1 β , MIG, RANTES, Resistin, TNF- α , TNF-RI, TNF-RII, and VEGF. Mouse SAA has no cross-reactivity with human SAA.

Precision*:

	Intra-assay (n=16)	Inter-assay (n=32)
Mean (ng/mL)	10.05	9.89
SD	0.967	0.963
%CV	9.6%	9.7%

Linearity*: Human serum and tissue culture medium containing 10% fetal calf serum were spiked with human SAA and serially diluted in Assay Diluent and a solution consisting of 50% Assay Diluent and 50% tissue culture medium containing 10% fetal calf serum, respectively, over the range of the assay. Linear regression analysis of samples versus the expected concentration yielded a correlation coefficient of 0.99 for both human serum and tissue culture.

Recovery:

Sample type	Results
Serum (Human)	✓
EDTA plasma (Human)	✓
Citrate plasma (Human)	—
Heparin plasma (Human)	✓
Tissue culture medium with 10% fetal calf serum*	✓

Notes: 70-130% recovery (✓), 50-69% recovery (—), 131-150% recovery (+) and <50% or >150% recovery (NR - Not recommended) *Analysis performed during product development and with first lots produced.

Explanation of symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

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