



# Human sCD30 Antibody Bead Kit

## INFORMATION SHEET

Catalog #: LHS6031 Description: Human sCD30 Lot: \* A11606

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

### Intended Use

This reagent set comprises the analyte specific components for the measurement of human soluble CD30 (sCD30) in serum, plasma, buffered solution or tissue culture supernatant. The assay may be run alone or in combination with other Antibody Bead Kits from Invitrogen. Buffer reagents needed to complete the reaction are sold separately under Catalog #LHB0001. These reagents are intended for use in the **Luminex® 100™ or 200™ System** only. **This kit is configured for research use only and is not to be used in diagnostic procedures.**

### Reagents Provided

#### 1. Antibody Bead Concentrate (10x):

Catalog #: LM219 Description: Ms x Hu sCD30 Lot: A11607 Size: 0.25 mL-100 tests

**Bead Region:** 78

**Form:** 0.25 mL 10x bead concentrate solution in storage buffer. Contains 7.5 mM sodium azide as preservative.

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

#### 2. Biotinylated Antibody Concentrate (10x):

Catalog #: BN219 Description: Ms x Hu sCD30 biotin Lot: A11608 Size: 1 mL-100 tests

**Form:** 1 mL of a 10x stock of Biotinylated Antibody Concentrate in Biotin Diluent. Contains 15 mM 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. Human sCD30 Single Analyte Standard (2 vials):

Catalog #: SM219 Description: Rec. Hu sCD30 Std Lot: A11609 Size: Single Use

**Form:** Lyophilized. The protein in this standard have been calibrated against the mass of highly purified recombinant protein, and the respective Luminex kit.

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

#### Concentration of Reconstituted Standard\*\*:

sCD30 (630 ng/mL )

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

**Reconstitution:** Reconstitute with 1.0 mL Assay Diluent when measuring CD30 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 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 same standard can be used to measure the other related cytokines cited above in a Multiplex Assay format. See the Product Insert included in the Buffer Reagent Kit for further information.

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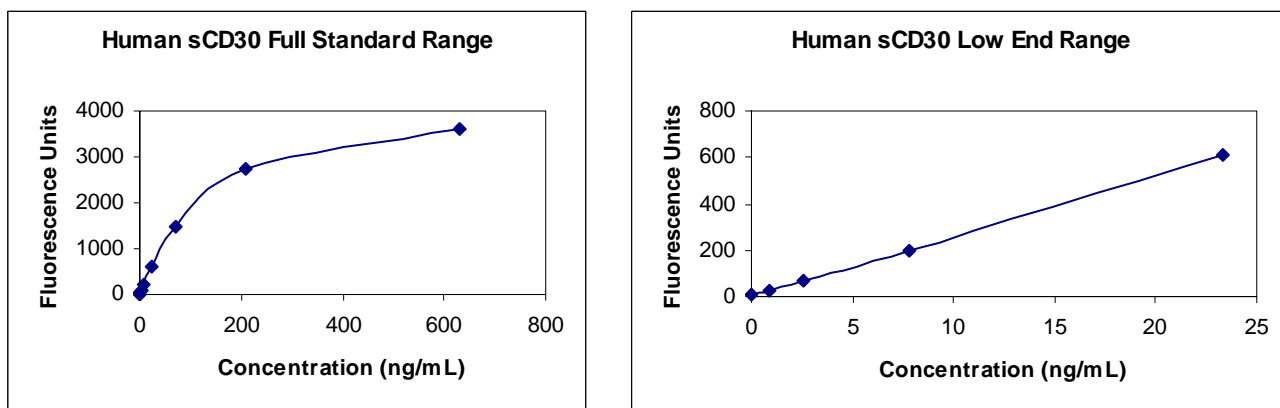
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### Performance Characteristics

**Analytical Sensitivity:** The minimum detectable dose of human sCD30 is < 50 pg/mL. This was determined by adding two standard deviations to the mean FI obtained when the zero standard was assayed 30 times.



**Representative Standard Curve**

**Specificity:** Buffered solutions of panels of substances at 5 to 10 ng/mL were assayed with the Invitrogen human sCD30 Antibody Bead Kit. The following substances were tested and all were found to have no cross-reactivity: human IL-1 $\beta$ , IL-1RA, IL-2, IL-2R, IL-4, IL-4R, IL-5, IL-6, IL-6R, IL-7, IL-8, IL-9, IL-10, IL-11, IL-12p40/p70, IL-13, IL-15, IL-17, TNF- $\alpha$ , TNF-RI, TNF-RII, TGF- $\beta$ , IFN- $\alpha$ , IFN- $\gamma$ , GM-CSF, GRO- $\alpha$ , MCP-2, MCP-3, MIP-1 $\alpha$ , MIP-1 $\beta$ , IP-10, MIG, Eotaxin, RANTES, MCP-1, VEGF, G-CSF, EGF, FGF-basic, HGF, DR5, PDGF-BB, BDNF, GDNF, SAA, Resistin, and Haptoglobin.

**Precision:**

	Intra-assay (n=16)	Inter-assay (n=32)
Mean (ng/mL)	55.1	54
SD	2.84	3.12
%CV	5.15	5.79

**Linearity:** Human serum and tissue culture medium containing 10% fetal calf serum were spiked with human sCD30 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 serum and tissue culture medium.

**Recovery:**

Human serum averaged 97.8% (range: 81.5 – 118.4%).  
 Human EDTA plasma averaged 97.9% (range: 80.0 – 119.8%); Citrate plasma averaged 94.0% (range: 84.4. – 120%); Heparin plasma averaged 96.9% (range: 80-116.9%).  
 Tissue culture medium containing 10% fetal calf serum averaged 92.5% (range: 90.1 -95.9%).

**Correlation:**

A correlation coefficient of 0.98 was calculated when values from tissue culture medium from human PBMCs stimulated for 72 hours with PHA, obtained with the Hu sCD30 Antibody Bead Kit were compared with the Invitrogen Hu sCD30 ELISA (cat. # KHS6031). Hu sCD30 Antibody Bead Kit (pg/mL) x 1.0 = Hu sCD30 ELISA (pg/mL).

By purchasing this Kit, which contains fluorescently labeled microsphere beads authorized by Luminex® Corporation ("Luminex®"), you, the customer, acquire the right under Luminex's patent rights to use this Kit or any portion of this Kit, including without limitation the microsphere beads contained herein, only with Luminex's laser based fluorescent analytical test instrumentation marketed under the name Luminex® 100™ or 200™. This product is covered by one or more of the following U.S. patents: 6,046,807.

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