



Fluorokine[®] MAP Human sICAM-1/CD54 Kit

Catalog Number: LAD720

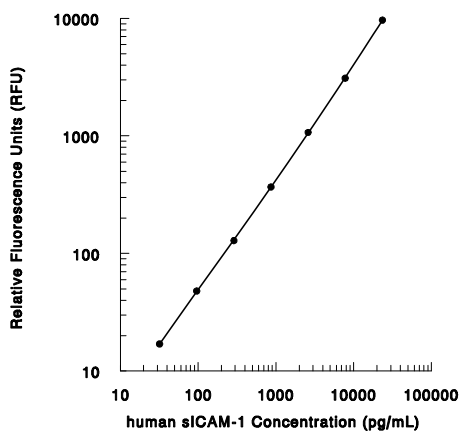
Pack Size: 100 Tests

Specifications and Use

- Recommended Sample Types**
 - Cell culture supernates, serum, EDTA plasma, and heparin plasma.
- Microparticle Region**
 - Region - 18
- Components**
 - Microparticle Concentrate (Part 893061) is supplied as a 100X concentrated stock (0.075 mL) with preservatives.
 - Biotin-Antibody Concentrate (Part 893068) is supplied as a 100X concentrated stock solution (0.075 mL) with preservatives.
- Other Supplies Required**
 - Fluorokine MAP Human Adhesion Molecule Base Kit (Catalog Number LAD000).
- Storage**
 - Store unopened kit at 2 - 8° C. Do not use past the expiration date on the label.
 - **Avoid freezing microparticles.**
 - **Protect microparticles from light.**
- Instructions for Use**
 - Refer to the appropriate Base Kit insert for the Fluorokine MAP assay procedure.

Typical Data

This human sICAM-1 standard curve is provided only for demonstration. A standard curve must be generated each time an assay is run, utilizing values from the Standard Value Card included in the appropriate Base Kit.



Standard	pg/mL	RFU	Average	Corrected
Blank	0	1 2	2	—
1	23,400	9483 9840	9662	9660
2	7800	3024 3193	3108	3106
3	2600	1015 1132	1073	1071
4	867	344 395	370	368
5	289	131 131	131	129
6	96	46 54	50	48
7	32	18 19	19	17

Performance Characteristics

All data were collected with assays run as a multiplex.

Sensitivity - The Minimum Detectable Dose (MDD) was determined by adding two standard deviations to the mean RFU of twenty zero standard replicates and calculating the corresponding concentration.

Five assays were evaluated, and the MDD of human sICAM-1 ranged from 1.03 - 2.27 pg/mL. The mean MDD was 1.64 pg/mL.

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

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1-800-343-7475

Intra-assay Precision (precision within an assay) - Three samples of known concentration were tested twenty times on one plate to assess precision within an assay.

Inter-assay Precision (precision between assays) - Three samples of known concentration were tested in twenty-three separate assays to assess precision between assays.

Intra-assay Precision				Inter-assay Precision		
Sample	1	2	3	1	2	3
n	20	20	20	23	23	23
Mean (pg/mL)	265	1934	17935	253	1829	17657
Standard Deviation	27	69	848	50	305	3104
% CV	10.3	3.6	4.7	19.0	17.0	17.0

Recovery and Linearity - Cell culture media samples were spiked with recombinant human sICAM-1 and evaluated for recovery. Cell culture supernate, serum and plasma samples were serially diluted to evaluate assay linearity.

Recovery			Linearity					
Sample	Average % Recovery	Range (%)		Cell culture supernates	Serum	EDTA Plasma	Heparin Plasma	
Cell culture media	99	83 - 112	1:2	Average % of Expected	103	114	110	108
				Range (%)	92 - 110	104 - 123	103 - 118	97 - 118
			1:4	Average % of Expected	104	112	113	108
				Range (%)	92 - 114	100 - 124	102 - 125	101 - 116
			1:8	Average % of Expected	106	104	104	102
				Range (%)	89 - 118	86 - 136	94 - 122	99 - 102

Specificity - This assay recognizes both natural and recombinant human sICAM-1. The assay was tested for interference and cross-reactivity with the factors listed below. Less than 1.0% cross-reactivity and interference was observed.

Recombinant human:	Recombinant mouse:	Recombinant rat:
ALCAM	ALCAM	E-Selectin
BCAM	DNAM	ICAM-1
CEACAM-1	E-Selectin	L-Selectin
CEACAM-5	ICAM-1	
CEACAM-6	ICAM-2	
DNAM-1	ICAM-5	
EpCAM	JAM-A	
E-Selectin	JAM-B	
ICAM-2	L-Selectin	
ICAM-3	MadCAM	
ICAM-5	P-Selectin	
JAM-A	VCAM-1	

Technical Hints:

- Protect the microparticles and streptavidin-PE from light at all times.
- Refer to the appropriate Base Kit Standard Value Card for reconstitution volume and value of the working standard.
- Diluted microparticles cannot be stored. Make a fresh dilution of microparticles each time the assay is run.
- The use of a vacuum manifold device made to accommodate a microplate is necessary for washing. Adjust the vacuum to between 15 and 40 cm Hg.
- Discrepancies may exist in values obtained for the same analyte utilizing different technologies.

Fluorokine MAP affords the user the benefit of multianalyte analysis of protein biomarkers in a complex sample. For each sample type, a single, multipurpose diluent is used to optimize recovery, linearity and reproducibility. Such a multipurpose, single diluent may not optimize any single analyte to the same degree that a unique diluent selected for analysis of that analyte can optimize conditions. Therefore, some performance characteristics may be more variable than those for assays designed specifically for single analyte analysis.