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Datasheet for ABIN2472124 L-Selectin ELISA Kit

Image



### Overview

Quantity:	96 tests
Target:	L-Selectin (SELL)
Binding Specificity:	Soluble
Reactivity:	Chemical
Method Type:	Sandwich ELISA
Detection Range:	78.13-5000 pg/mL
Minimum Detection Limit:	78.13 pg/mL
Application:	ELISA

# Product Details

Purpose:	This assay employs the quantitative sandwich enzyme immunoassay technique for quantitative detection.	
Sample Type:	erum, Plasma, Cell Culture Supernatant	
Analytical Method:	Quantitative	
Detection Method:	Colorimetric	
Specificity:	SL-Selectin, Human	
Sensitivity:	9.46 pg/mL	
Components:	Plate, Standard, Diluent	
Material not included:	Microplate reader capable of measuring absorbance at 450 nm, with correction wavelength set at 570 nm or 630 nm.	

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/8 | Product datasheet for ABIN2472124 | 09/11/2023 | Copyright antibodies-online. All rights reserved. Pipettes and pipette tips.

50  $\mu L$  to 300  $\mu L$  adjustable multichannel micropipette with disposable tips.

Multichannel micropipette reservoir.

Beakers, flasks, cylinders necessary for preparation of reagents.

Deionized or distilled water.

Polypropylene test tubes for dilution.

# Target Details

Target:	L-Selectin (SELL)	
Alternative Name:	L-Selectin (SELL Products)	
Background:	Human L-Selectin (leukocyte selectin, CD62L, LAM-1, LECAM-1, LECCAM-1, TQ1, Leu-8, DREG, lymph node homing receptor, MEL-14 antigen) is a cell surface glycoprotein expressed constitutively on a wide variety of leukocytes. Two forms of Soluble L-Selectin (sL-Selectin) have been reported. sL-Selectin derived from lymphocytes is about 62 kDa, while the fragment derived from neutrophils is 75-100 kDa.	
Gene ID:	6402	
NCBI Accession:	NM_000655	
UniProt:	P14151	

## **Application Details**

Sample Volume:	100 μL
Assay Time:	3 - 4 h
Plate:	Pre-coated
Protocol:	1. Prepare all reagents and standards as directed.
	2. Add 50 µL Assay Buffer to each well.
	3. Add 50 $\mu L$ Standard or sample per well within 15 minutes. Incubate for 2 hours at RT.
	4. Aspirate and wash 6 times.
	5. Add 100 $\mu L$ Detect Antibody to each well. Incubate for 2 hours at RT.
	6. Aspirate and wash 6 times.
	7. Add 100 $\mu L$ Streptavidin-HRP to each well. Incubate for 45 min at RT.
	8. Aspirate and wash 6 times.
	9. Add 100 $\mu L$ Substrate Solution to each well. Incubate for 10 - 30 minutes at RT. Protect from

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#### light.

10. Add 100 µL Stop Solution to each well.

11. Read at 450 nm within 30 minutes. Correction 570 or 630 nm

If crystals form in the Buffer Concentrates, warm and gently stir them until completely Reagent Preparation: dissolved. Washing Buffer (1x) Pour entire contents (50 mL) of the Washing Buffer (20x) into a clean 1000 mL graduated cylinder. Bring to final volume of 1000 mL with pure or deionized water. Mix gently to avoid foaming. Transfer to a clean wash bottle and store at 2 to 25 °C. Washing Buffer (1x) is stable for 30 days. Assay Buffer (1x) Pour the entire contents (10 mL) of the Assay Buffer (10x) into a clean 100 mL graduated cylinder. Bring to final volume of 100 mL with distilled water. Mix gently to avoid foaming. Store at 2 to 8 °C. Assay Buffer (1x) is stable for 30 days. Detect Antibody Mix well prior to making dilutions. Make a 1:100 dilution of the concentrated Detect Antibody solution with Assay Buffer (1x) in a clean plastic tube as needed. The diluted Detect Antibody should be used within 30 minutes after dilution. Streptavidin-HRP Mix well prior to making dilutions. Make a 1:100 dilution of the concentrated Streptavidin-HRP solution with Assay Buffer (1x) in a clean plastic tube as needed. The diluted Streptavidin-HRP should be used within 30 minutes after dilution. Sample Dilution If your samples have high sL-Selectin content, dilute serum/plasma samples with Assay Buffer (1x). For cell culture supernates, dilute with cell culture medium. Human sL-Selectin Standard Reconstitute Human sL-Selectin Standard by addition of distilled water. Reconstitution volume is stated on the label of the standard vial. Swirl or mix gently to insure complete and homogeneous solubilization (concentration of reconstituted standard = 20000 pg/ mL). Allow the standard to reconstitute for 10 - 30 minutes. Mix well prior to making dilutions. Use polypropylene tubes. Human sL-Selectin ELISA Kit 7 For serum/plasma samples, mixing concentrated human sL-Selectin standard (150 µL) with 150 µL of Standard Diluent creates the high standard (10000 pg/ mL). Pipette 150 µL of Standard Diluent into each tube. Use the high standard to produce a 1:1 dilution series . Mix each tube thoroughly before the next transfer. Standard Diluent serves as the zero standard (0 pg/mL). For cell culture supernates, mixing concentrated human sL-Selectin standard (150 µL) with 150 µL of cell culture medium creates the high standard (10000 pg/mL). Pipette 150 µL of cell culture medium into each tube. Use the high standard to produce a 1:1 dilution series. Mix each tube thoroughly before the next transfer. Cell culture medium serves as the zero standard (0 pg/ mL). Sample Collection: Cell

Culture Supernates:

Remove particulates by centrifugation and assay freshly prepared samples immediately or

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Use a serum separator tube (SST) and allow samples to clot for 30 minutes before centrifugation for 10 minutes at 1000 g. Remove serum and assay freshly prepared samples immediately or aliquot and store samples at ≤ 20 °C for later use. Avoid repeated freeze thaw cycles. Plasma:

	Collect plasma using FDTA situate or baparin as antiaccoulant. Contrifuge at 1000 g within 20
	Collect plasma using EDTA, citrate or heparin as anticoagulant. Centrifuge at 1000 g within 30
	minutes of collection. Assay freshly prepared samples immediately or aliquot and store
	samples at $\leq$ 20 °C for later use. Avoid repeated freeze thaw cycles. Other biological samples
	might be suitable for use in the assay. Cell culture supernates, serum and plasma were tested
	with this assay. Dilution with Assay Buffer may be needed. Note: Samples containing a visible
	precipitate must be clarified prior to use in the assay. Do not use grossly hemolyzed or lipemic
	specimens. If samples are to be run within 24 hours, they may be stored at 2 to 8 °C. For longer
	storage, aliquot samples and store frozen at 20 °C to avoid loss of bioactive human sL:
	Selectin. Avoid repeated freeze thaw cycles. Human sL:
	Selectin ELISA Kit 6 SAMPLE PREPARATION Serum and plasma samples require a 1000:
	fold dilution. A suggested 1000:
	fold dilution is two step dilution: first, 10 $\mu$ L sample + 190 $\mu$ L Assay Buffer (1x), next, 10 $\mu$ L Mix
	+ 490 µL Assay Buffer (1x). Cell culture supernate require a 10:
	fold dilution. A suggested 10:
	fold dilution is 20 $\mu$ L sample + 180 $\mu$ L cell cultre media
Assay Procedure:	fold dilution is 20 μL sample + 180 μL cell cultre media Bring all reagents and samples to room temperature before use.
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	on a microplate shaker set at 100 rpm. (Shaking is absolutely necessary for an optimal test
	performance.) 7. Aspirate each well and wash by filling each well with 300 $\mu L$ Washing Buffer
	(1x), repeat five times for a total six washes. Complete removal of liquid at each step is
	essential to the best performance. After the last wash, remove any remaining Washing Buffer
	(1x) by aspirating or decanting. Invert the plate and tap it against clean paper towels.
	8. Add 100 µL of Detect Antibody to each well.
	9. Seal the plate with a fresh adhesive film. Incubate at room temperature (18 to 25 °C) for 2
	hours on a microplate shaker set at 100 rpm.
	10. Repeat aspiration/wash as in step 7. 11. Add 100 $\mu$ L of Streptavidin-HRP to each well.
	12. Seal the plate with a fresh adhesive film. Incubate at room temperature (18 to 25 °C) for
	45 min on a microplate shaker set at 100 rpm.
	13. Repeat aspiration/wash as in step 7.
	14. Add 100 $\mu$ L of Substrate Solution to each well. Incubate for 10 - 30 minutes at room
	temperature. Protect from light.
	15. Add 100 $\mu$ L of Stop Solution to each well. The color will turn yellow. If the color in the well is
	green or if the color change does not appear uniform, gently tap the plate to ensure thorough
	mixing.
	16. Measure the optical density value within 30 minutes by microplate reader set to 450 nm. If
	wavelength correction is available, set to 570 nm or 630 nm. If wavelength correction is not
	available, subtract readings at 570 nm or 630 nm from the readings at 450 nm. This subtraction
	will correct for optical imperfections in the plate. Reading directly at 450 nm without correction
	may generate higher concentration than true value.
Calculation of Results:	Average the duplicate optical density readings for each standards and sample, then subtract
	the average optical density value of the zero standard. Standard Concentration as horizontal
	axis, optical density (OD) Value as the vertical axis, regressing the data and create a standard
	curve using computer software. The data may be linearized by plotting the log of the sL-Selectin
	concentrations versus the log of the OD and the best fit line can be determined by regression
	analysis. This procedure will produce an adequate but less precise fit of the data. Note: The
	finally concentration of top standard is 5000 pg/mL. If instruction in this protocol have been
	followed samples have been diluted by 1:1 ratio (50 $\mu$ L sample + 50 $\mu$ L Assay Buffer), the
	concentration read from the standard curve must be multiplied by the dilution factor (x2). If
	samples have been diluted following the instruction, the final dilution factor is 2000
	(serum/plasma) or 20 (cell culture supernate).
Assay Precision:	Intra-assay precision (precision within an assay): Three serum-based and buffer-based samples
	of known concentration were tested twenty times on one plate to assess intra-assay precision.

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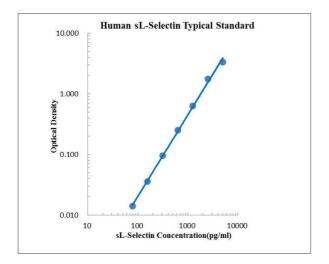
Application Details	
	Inter-assay precision (precision between assays): Three serum-based and buffer-based
	samples of known concentration were tested in six separate assays to assess inter-assay
	precision.
	Spike recovery:
	The spike recovery was evaluated by spiking 3 levels of human sL-Selectin into five health
	human serum samples. The un-spiked serum was used as blank in these experiments. The
	recovery ranged from 90 % to 119% with an overall mean recovery of 104 %.
Restrictions:	For Research Use only
Handling	
Buffer:	Buffer contains: 0.02 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Handling Advice:	Intended for research use only and are not for use in diagnostic or therapeutic procedures.
	Treat all chemicals with caution because they can be potentially hazardous.
	It is recommended that this product is handled only by persons who have been trained in
	laboratory techniques and in accordance with the principles of good laboratory practice. Wear
	personal protection equipment such as laboratory coat, safety glasses and gloves.
	Avoid direct contact with skin or eyes. Wash immediately with water in the case of contact with
	skin or eyes. Avoid contact of skin or mucous membranes with kit reagents or specimens. See
	material safety data sheet(s) for specific advice.
	Pure water or deionized water must be used for reagent preparation.
	The Stop Solution provided with this kit is an acid solution. Wear personal protection equipmen
	with caution.
	Do not expose kit reagents to strong light during storage and incubation.
	Rubber or disposable latex gloves should be worn while handling kit reagents or specimens.
	Avoid contact of substrate solution with oxidizing agents and metal.
	Avoid splashing or generation of aerosols.
	Use disposable pipette tips and/or pipettes to avoid microbial or cross-contamination of
	reagents or specimens which may invalidate the test.
	Use clean, dedicated reagent trays for dispensing the conjugate and substrate reagent.
	Exposure to acid inactivates the HRP and antibody conjugate.

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Handling	
	Substrate solution must be warmed to room temperature prior to use.
	Decontaminate and dispose specimens and all potentially contaminated materials as they
	could contain infectious agents. The preferred method of decontamination is autoclaving for a
	minimum of 1 hour at 121.5 °C.
	Liquid wastes not containing acid and neutralized waste may be mixed with sodium
	hypochlorite in volumes such that the final mixture contains 1.0 % sodium hypochlorite. Allow
	30 minutes for effective decontamination. Liquid waste containing acid must be neutralized
	prior to the addition of sodium hypochlorite.
	All reagents including microplate, samples, standards and working solution should be warmed
	to room temperature before use.
	To obtain accurate results, using adhesive film to seal the plate during incubation is suggested.
	It is recommended that all samples and standards be assayed in duplicate.
	Avoid foaming when mixing or reconstituting solutions containing protein.
	To avoid cross-contamination, use separate reservoirs for each reagent and change pipette tips
	between each standard, sample and reagent.
	When using an automated plate washer, adding a 30 seconds soak period before washing step
	and/or rotating the plate between wash steps may improve assay precision.
	When pipetting reagents, maintain a consistent order of addition from well-to-well.
	Keep Substrate solution protected from direct strong light. Substrate Solution should turn to
	gradations of blue after a proper color development.
	Read absorbance within 30 minutes after adding stop solution.
	Take care not to scratch the inner surface of the microwells.
Storage:	4 °C
Storage Comment:	Store kit reagents between 2 and 8 °C. Immediately after use remaining reagents should be
	returned to cold storage (2 to 8 °C).
	Expiry of the kit and reagents is stated on labels. Expiration date of the kit components can only
	be guaranteed if the components are stored properly, and if, in case of repeated use of one
	component, this reagent is not contaminated by the first handling.
	Unopened Kit: Store at 2 - 8 °C (See expiration date on the label).
	Opened/Reconstituted Reagents: Up to 1 month at 2 - 8 °C.
	Reconstituted Standard: Up to 1 month at $\leq$ -20 °C in a manual defrost freezer. Avoid repeated
	freeze-thaw cycles.
	Microplate Wells: Up to 1 month at 2 - 8 °C. Return unused strips to the foil pouch containing
	the desiccant pack, reseal along entire edge to maintain plate integrity. Provided this is within
	the expiration date of the kit

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### Images



EL	ISA

Image 1.

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