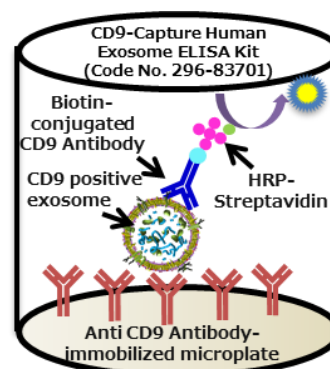


CD9/63/81-Capture Human Exosome ELISA Kit (Streptavidin HRP)

Summary

These ELISA kit can be used for qualitative and quantitative analysis of extracellular vesicles (EVs) in cell culture supernatants and body fluid samples. It is possible to detect human CD9, CD63 or CD81 and extracellular vesicles having any marker protein on the surface with high sensitivity.



Features

Specific to human extracellular vesicles.

Adopted human tetraspanin-specific antibodies

Direct analysis from cell culture sup. or blood samples.

No need to isolation.

EVs in cell culture supernatants and blood samples can be directly qualitatively and quantified.

Simple operation and high reproducibility

Optimized kit for detection of EVs.

High versatility

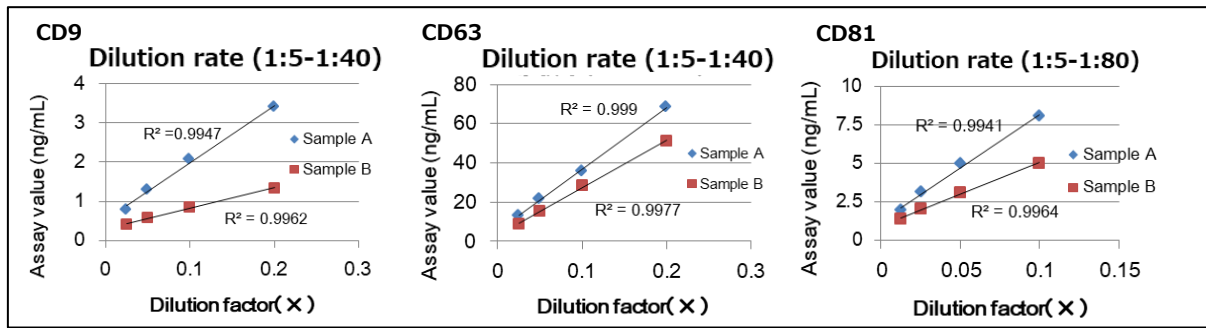
Biotin-labeled antibodies against any surface marker protein can be used.

Kit components

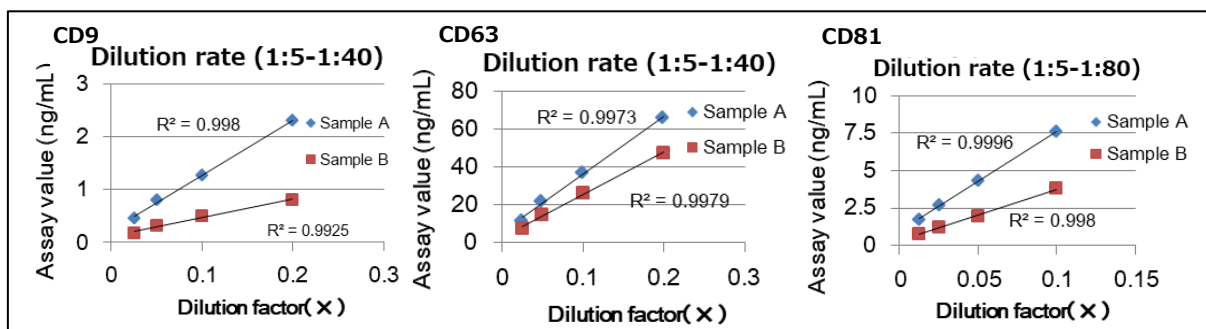
CD9-Capture	CD63-Capture	CD81-Capture	Amount
Anti-CD9 Antibody-immobilized 96Well Plate	Anti-CD63 Antibody-immobilized 96 Well Plate	Anti-CD81 Antibody-immobilized 96 Well Plate	1 sheet (8 well×12 strips)
Plate Seal	Plate Seal	Plate Seal	4 sheets
Sample Reaction Buffer	Sample Reaction Buffer	Sample Reaction Buffer	50 mL×1 tube
Antibody Reaction Buffer	Antibody Reaction Buffer	Antibody Reaction Buffer	50 mL×1 tube
Washing Buffer(10×)	Washing Buffer(10×)	Washing Buffer(10×)	100 mL×1 tube
Control Biotinylated Antibody Anti CD9(100×)	Control Biotinylated Antibody Anti CD63(100×)	Control Biotinylated Antibody Anti CD81(100×)	120 µL× 1 tube
HRP-conjugated Streptavidin(100×)	HRP-conjugated Streptavidin(100×)	HRP-conjugated Streptavidin(100×)	240 µL×1 tube
TMB Solution	TMB Solution	TMB Solution	12 mL×1 tube
Stop Solution	Stop Solution	Stop Solution	12 mL×1 tube

Dilution Linearity -Human blood sample or cell culture supernatant-

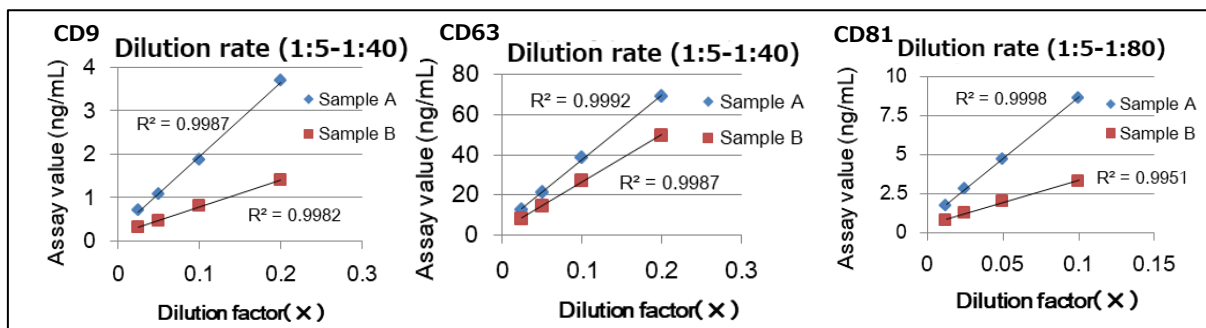
■ Human serum sample



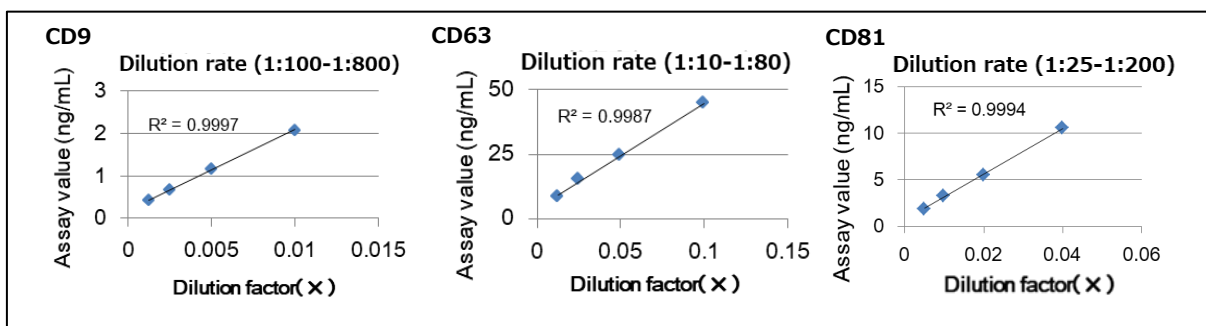
■ Human heparin plasma sample



■ Human EDTA plasma sample



■ COLO201 cell culture supernatant sample

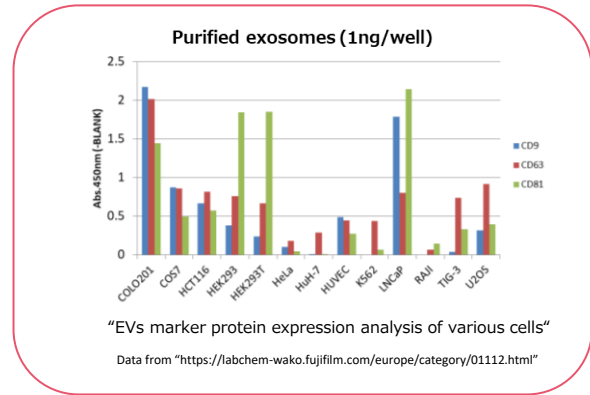
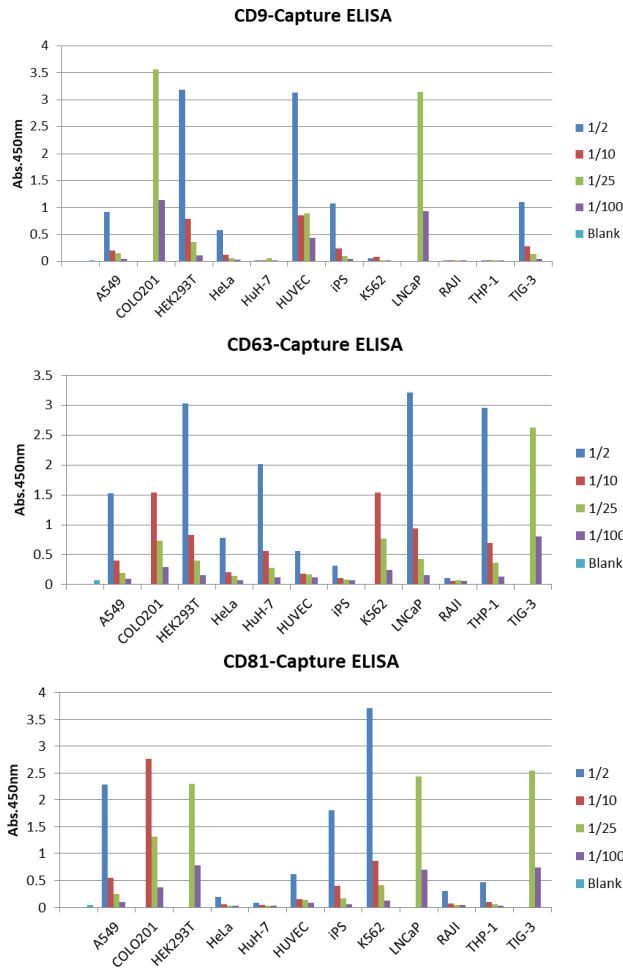


These results showed that good dilution linearity was obtained according to the dilution rate in human blood samples and human cell line (COLO201 cell) culture supernatant samples.

Comparison of EVs expression

12 types of supernatants derived from human cell lines were measured with this kit.

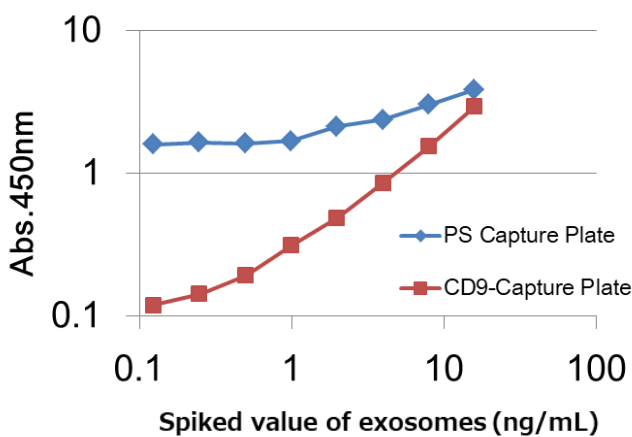
► Dilution rate: 2, 10, 25 and 100-fold dilution



It was shown that the expression levels of CD9, CD63, and CD81 differed depending on the cell lines. This result was similar to the data of "Qualitative analysis of EVs purified from various cell culture supernatants." obtained by our PS Capture™ Exosome ELISA Kit (Anti Mouse IgG HRP) [code No. 297-79201].

※The reason of some cell lines showed no signal at 2 and 10-fold dilution is that the signal was over the detection limit.

Comparison of specificity to human EVs



Assay sample

2-fold diluted DMEM containing 10 % FBS (ultracentrifuged) added with each concentration of exosomes purified from COLO201 cells.

Plates used

- PS Capture™ Exosome ELISA Kit (Streptavidin HRP) [Code No.298-80601]
- CD9-Capture Human Exosome ELISA Kit (Streptavidin HRP) [Code No.296-83701]

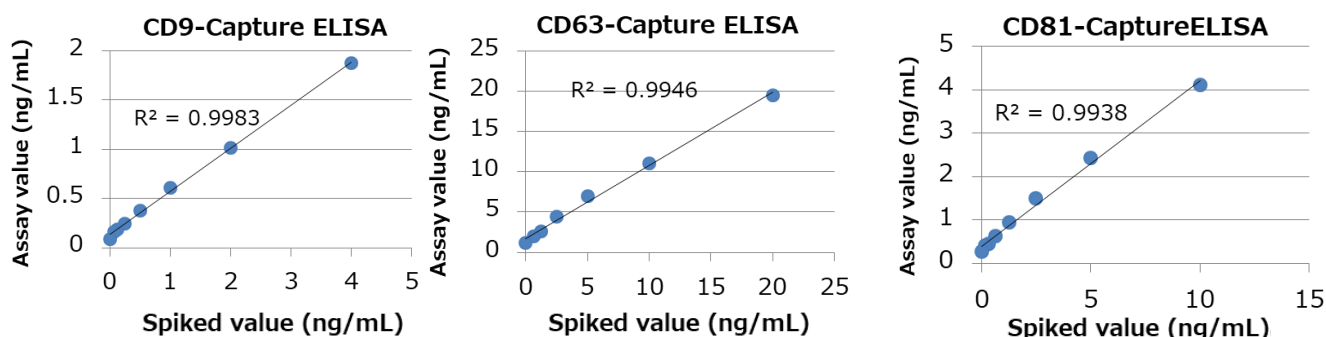
Detection antibody

Anti CD9, Monoclonal Antibody(1K) [code No. 014-27763]. Biotin-labeled.

PS Capture™ Exosome ELISA Kit (Streptavidin HRP) captured human exosomes and bovine exosomes remaining in ultracentrifuged FBS. Whereas CD9-Capture Human Exosome ELISA Kit (Streptavidin HRP) was able to capture human exosomes specifically and detect them with high sensitivity.

Spike and recovery assay of human derived-EVs

Evaluated the linearity using mouse EDTA plasma (2-fold diluted) spiked with Exosome, from COLO201 cells, Purified [code No. 052-09301].



Assay Sample




2-fold diluted mouse EDTA plasma spiked with exosomes purified from COLO201 cells at each concentration.

Assay kit

CD9/CD63/CD81-Capture Human Exosome ELISA Kit

Human-derived exosomes were measured with good linearity from mouse EDTA plasma sample.

► Product List

Product No.	Product Name	Pkg. size
296-83701	CD9-Capture Human Exosome ELISA Kit (Streptavidin HRP) 	96 tests
290-83601	CD63-Capture Human Exosome ELISA Kit (Streptavidin HRP) 	96 tests
292-83801	CD81-Capture Human Exosome ELISA Kit (Streptavidin HRP) 	96 tests

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