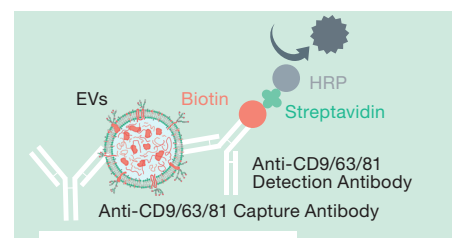


# CD9/ CD63/ CD81- CAPTURE HUMAN EXOSOME ELISA KIT

## QUANTITATIVE DETECTION OF EVs

### INTRODUCTION

The ELISA kits are used for qualitative detection and quantitative detection of extracellular vesicles (EVs) in cell culture supernatants and body fluid samples. EVs can be directly analyzed from the samples without any isolation steps. It is possible to detect human CD9, CD63 or CD81 and extracellular vesicles having any marker protein on the surface with high sensitivity.



#### Features

- + CD9/63/81 Ab sandwich ELISA
- + High specificity
- + Quantitative detection
- + High versatility
- + High sensitivity

#### Applicable Samples

- + Purified EVs
- + Serum
- + Cell culture supernatant
- + Plasma

### Kit Components

CD9 ELISA Kit	CD63 ELISA Kit	CD81 ELISA Kit	
Anti-CD9 Antibody-immobilized 96 well Plate	Anti-CD63 Antibody-immobilized 96 well Plate	Anti-CD81 Antibody-immobilized 96 well Plate	1 sheet (8 well×12 strips)
Plate Seal			4 sheets
Sample Reaction Buffer			50 mL×1 tube
Antibody Reaction Buffer			50 mL×1 tube
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×)			240 µL× 1 tube
TMB Solution			12 mL×1 tube
Stop Solution			12 mL×1 tube

### ORDERING INFORMATION

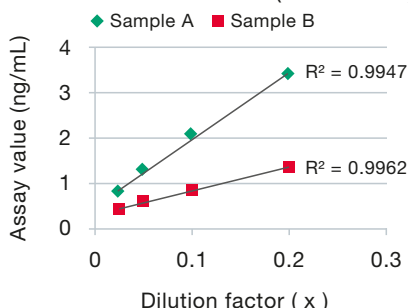
WAKO CODE	PRODUCT NAME	STORAGE CONDITION	PACKAGE SIZE
296-83701	CD9-Capture Human Exosome ELISA Kit (Streptavidin HRP) <b>NEW</b>	Keep at 2-10 °C	96 Tests
290-83601	CD63-Capture Human Exosome ELISA Kit (Streptavidin HRP) <b>NEW</b>	Keep at 2-10 °C	96 Tests
292-83801	CD81-Capture Human Exosome ELISA Kit (Streptavidin HRP) <b>NEW</b>	Keep at 2-10 °C	96 Tests

## QUANTIFICATION

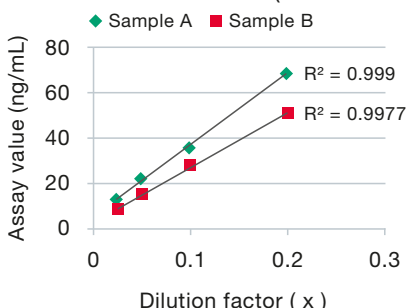
Good dilution linearities were obtained according to the dilution rate in human blood samples and human cell line (COLO201 cell) culture supernatant samples. The assays are not influenced by the sample matrix, the EVs can be measured quantitatively.

### (1) Human serum sample

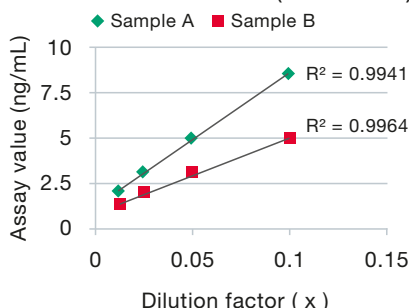
**CD9 Dilution rate (1:5 - 1:40)**



**CD63 Dilution rate (1:5 - 1:40)**

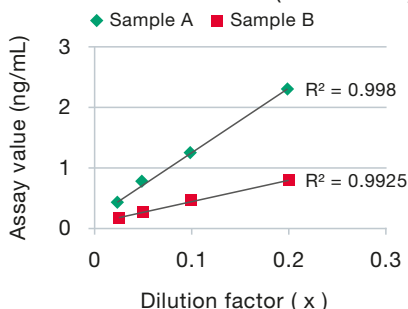


**CD81 Dilution rate (1:10 - 1:80)**

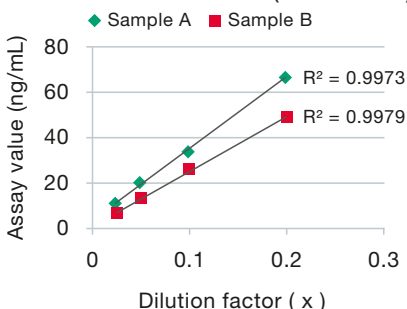


### (2) Human heparin plasma sample

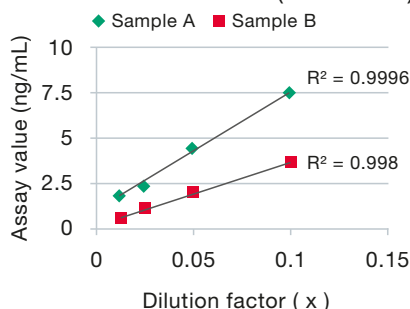
**CD9 Dilution rate (1:5 - 1:40)**



**CD63 Dilution rate (1:5 - 1:40)**

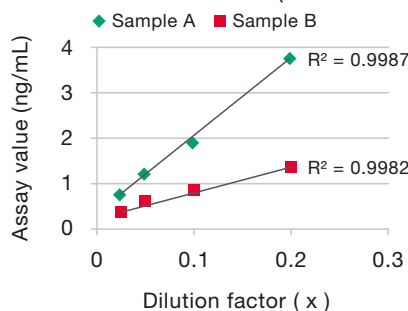


**CD81 Dilution rate (1:10 - 1:80)**

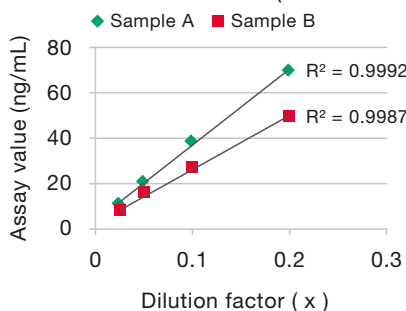


### (3) Human EDTA plasma sample

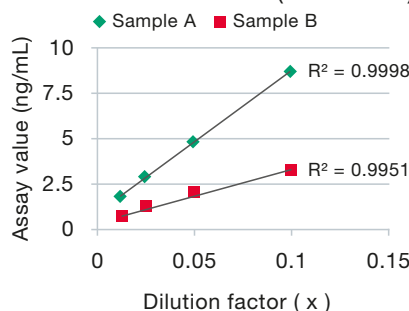
**CD9 Dilution rate (1:5 - 1:40)**



**CD63 Dilution rate (1:5 - 1:40)**

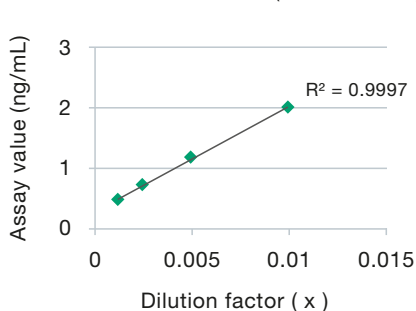


**CD81 Dilution rate (1:10 - 1:80)**

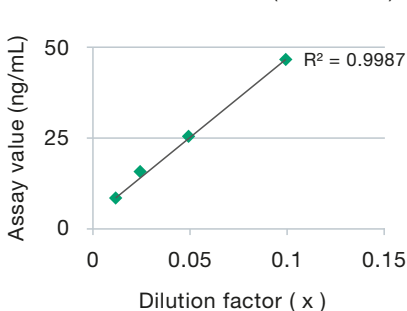


### (4) COLO201 cell culture supernatant sample

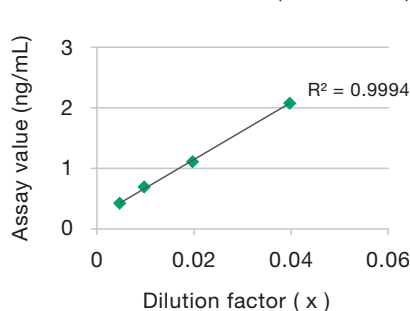
**CD9 Dilution rate (1:100 - 1:800)**



**CD63 Dilution rate (1:10 - 1:80)**

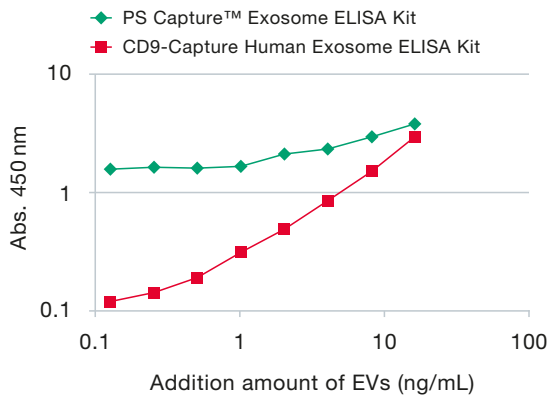


**CD81 Dilution rate (1:25 - 1:200)**



## SPECIFICITY

### EV detection



#### Sample:

Exosomes, from COLO201 cells, purified (052-09301) in DMEM + 10% FBS (UC-treated) and detected by CD9 Ab\* (clone:1K; 014-27763).

\*Anti-CD9 Ab, clone 1K cross-reacts with human and bovine CD9

CD9 Capture ELISA shows high specificity for human EVs, whereas PS Capture Exosome ELISA Kit (298-80601) detects human and bovine EVs in FBS.

## SENSITIVITY

ELISA KIT	CD9	CD63	CD81
<b>LOD</b> (Blank + 3 SD)	0.014 ng/mL (Total <b>1.4 pg</b> )	0.381 ng/mL (Total <b>38.1 pg</b> )	0.127 ng/mL (Total <b>12.7 pg</b> )
<b>LOQ</b> (Blank + 10 SD)	0.043 ng/mL (Total <b>4.3 pg</b> )	1.033 ng/mL (Total <b>103.3 pg</b> )	0.325 ng/mL (Total <b>32.5 pg</b> )

As sample, Exosomes, from COLO201 cells, purified (052-09301) is used.

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### FUJIFILM Wako Chemicals Europe GmbH

Fuggerstr. 12  
41468 Neuss · Germany

Phone +49 2131 311 271  
Fax +49 2131 311 110

labchem\_wkeu@fujifilm.com

### FUJIFILM Wako Chemicals U.S.A. Corporation

1600 Bellwood Road Richmond  
VA 23237 · USA

Phone +1-804-714-1920  
Fax +1-804-271-7791

wkuslabchem@fujifilm.com

### FUJIFILM Wako Pure Chemical Corporation

1-2, Doshomachi 3-Chome Chuo-Ku  
Osaka 540-8605 · Japan

Phone +816 6203 3741  
Fax +81 6 6203 1999

ffwk-cservice@fujifilm.com



[labchem-wako.fujifilm.com](https://labchem-wako.fujifilm.com)