Product Information

F-NTA Tetraspanin EV Detection Kit 520

Product Details

Product Number:	700382
Size:	750 tests + 250 IgG tests
Reactivity:	Human, Baboon, Cynomolgus monkey, Human, Non-human primates
Isotype:	Mouse IgG1 kappa
Excitation/Emission:	562nm/584nm
Clonality:	Monoclonal
Storage conditions:	4°C, protected from light

Experimental Protocol

- Dilute 1µl of each of the three CD antibodies (CD9/CD63/CD81) in 27µl nanoparticle free phosphate buffered saline (PBS). This predilution can be used for up to 30 tests.
- For IgG control dilute 1µl in 9µl nanoparticle free phosphate buffered saline (PBS). This predilution can be used for up to 10 tests.
- Pipette 1-9µl EV sample (see table below) with a concentration of 10^{10}-10^{11} EVs/ml in a 1.5ml reaction tube.
- Add 1µl of the prediluted antibody mix or IgG control and fill the volume up to 10µl using PBS.
- Store for 60min at room temperature in the dark.
- Fill up to 1ml total volume using PBS.
- Analyze the sample with a ZetaView® using the 520nm laser.

EV concentration (particles/ml)	**EV sample volume (µl)**	**Final dilution factor (for use in ZetaView® software)**
$1{,}5x10^{11}$	1	1000
$1{,}0x10^{11}$	1,5	666
$7{,}5x10^{10}$	2	500
$5{,}0x10^{10}$	3	333
$3{,}8x10^{10}$	4	250
$3{,}0x10^{10}$	5	200
$2{,}5x10^{10}$	6	166
$2{,}1x10^{10}$	7	143
$1{,}9x10^{10}$	8	125
$1{,}7x10^{10}$	9	111

Concentration >$2{,}0x10^{11}$: please predilute sample

Concentration <$5{,}0x10^{9}$: please increase sample volume and incubation time (see trouble shooting)

Trouble shooting

Number of particles/frame is too low:

- Increase the volume of EV sample to be stained. In case the volume needs to be increased above 20µl, the incubation time should be increased to 4h.
- Check protein concentration: concentrations higher than 30mg/ml might affect staining efficiency negatively.

Particles are visible in the buffer only control:

- Centrifuge antibody at 17.000g for 10min and use the supernatant.

Measurement settings