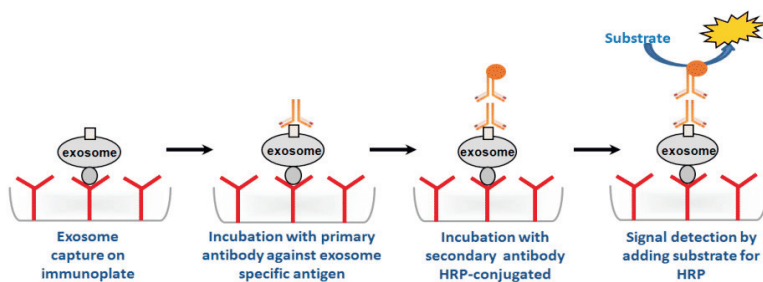


# EV Quantification Kits for ELISA and FACS analysis

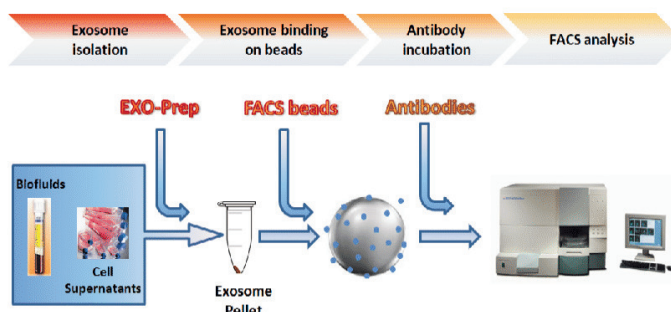
## ExoTEST™: Double sandwich ELISA for Extracellular Vesicle quantification.

ExoTEST™ is an assay for quantitative and qualitative analysis of Extracellular Vesicles (EVs). ExoTEST™ provides successful quantification and characterization of EVs from small amount of human biological fluids or conditioned cell media. It is also able to identify and capture EVs released by cancer cells in plasma or urine of tumor patients in various disease stages.



## Capture and enrichment of specific EV subpopulations

Exo-FACS kit allows detection of EV-related marker by FACS analysis. The kit consists of EXO-Prep reagent for fast EV isolation, 4 μm beads used for the capture of pre-isolated EVs, lyophilized Exosome Etandards from conditioned cell media or human biological fluids for positive control. The characterization of EV proteins (membrane expressed or internal) is performed using appropriate detection antibodies against EV associated antigens.



## Characteristics

- Ready to use
- Small amount of sample required
- Capture and enrichment of specific EV subpopulations

## Applications

- EV capture and quantification from human and mouse biofluids and cell media
- EV comprehensive profiling
- Biomarker screening in EV subpopulations

## Advantages

- No EV pre-purification required.
- Open platforms for customized solutions.
- Long term storage (up to 2 years).

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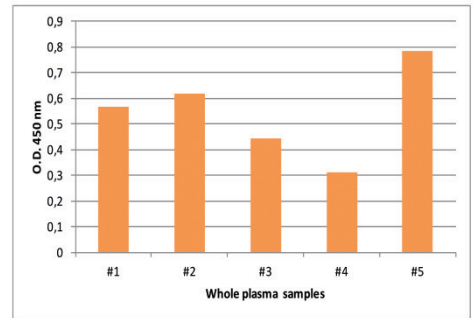
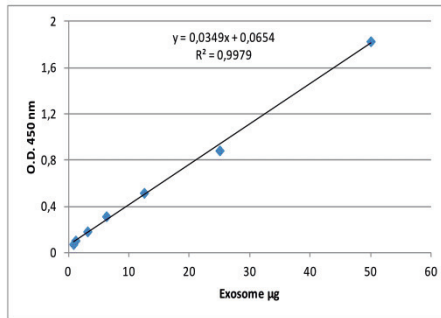
# Easy and reliable way to quantify your EVs

## Applications of Immunoaffinity EV capture tools

### ExoTEST™: Quantification and phenotyping of Extracellular Vesicles

Example of EVs quantification performed in 5 unknown plasma samples from healthy donors using the ExoTEST™ (HBM-RTK-POF/TP). Following the binding of Lyophilized Standards and unknown samples onto the ELISA plate, test is run according to the kit protocol and exosome detection is performed with anti-CD9 antibody (HBM-LS).

EV quantification is performed following the binding of Lyophilized Standards and unknown samples on ELISA plate using the standard calibration curve. The particle number contained in 100 µl of plasma is calculated from quantity of exosomes (expressed in µg) according to the particle concentration (number of particles/ml) indicated in the label of the Lyophilized Exosome Standards (HBM-PEP100, NTA: 3x10<sup>11</sup> particles/ml).

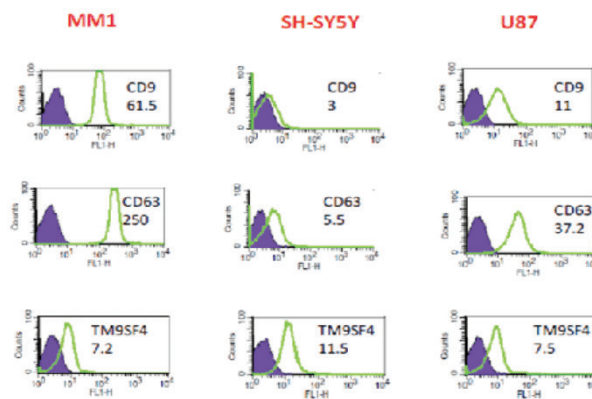


Plasma sample	O.D. 450 nm	EVs (µg)	Particle number in 100 µl of plasma
#1	0,5673	12,869	3,86x10 <sup>9</sup>
#2	0,6194	14,205	4,26x10 <sup>9</sup>
#3	0,4425	9,6692	2,90x10 <sup>9</sup>
#4	0,3100	6,2717	1,88x10 <sup>9</sup>
#5	0,7853	18,458	5,54x10 <sup>9</sup>

### Exo-FACS: Different EV marker analysis via FACS

Exo-FACS kit was used for a protein marker profile in EVs derived from different cell lines.

In figure 3 is shown shown a profile of expression of three different EV-related markers in EVs purified from Melanoma (MM1), Neuroblastoma (SH) and Glioblastoma (U87) cell supernatants.



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NB-45-00042-25	Super NI-NTA Agarose Resin	25ml
NB-45-00058-4	Proteus 1 -step Batch Mini Spin Column Pack	40pc
NB-12-6001-3	NeoLine pipette 2-20 µl	1unit
NB-12-0023C	Mini Centrifuge N500C @10,000rpm (Including 6x1.5/2.0ml angle rotor)	1pcs
NB-03-0160	Proteinase K (Powder)	100mg
NB-60-0001	NeoPrep mini	50columns
NB-12-8001-19	Combs for NeoPRO4 mini (1.5mm, 15 wells)	5pieces
NB-12-8001-20	Spacer glasses flat for NeoPRO4 mini (0.75mm, 100*83mm)	5pieces
NB-12-8001-04	Short glasses flat for NeoPRO4 mini (1.0mm, 100*73mm)	10pieces

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