

Figure 4. CD9 titration of plasma healthy donor exosome standards.

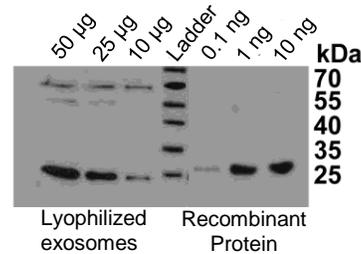


Figure 5. CD9 marker detection by Western Blotting on lyophilized exosomes from human plasma and the recombinant CD9 protein.

- X. Reproducibility:** Intra Assay (within run) CV (%) < 10 Inter Assay (interplate run) CV (%) < 13. Coefficient of variation (CV) is expressed as a percentage of variance to the mean calculated for intra assay reproducibility evaluation by assessing at least 4 replicates of three different standard preparations containing different exosome concentrations. Subsequently, assay to-assay reproducibility was assessed by comparing mean absorbance for the same samples on independent plates tested by different operators.

XI. Related Products:

Products/Catalog Number
ExoQuant™ Overall Exosome Capture and Quantification Assay Kit (human plasma, Colorimetric) # K1201-100
ExoQuant™ Overall Exosome Capture and Quantification Assay Kit (human urine, Colorimetric) # K1202-100
ExoQuant™ Overall Exosome Capture and Quantification Assay Kit (human serum, Colorimetric) # K1203-100
ExoQuant™ Tumor-derived Exosome enrichment and Quantification Assay Kit (biological fluids/cell media, Colorimetric) # K1204-100
ExoQuant™ Overall Exosome Capture and Quantification Assay Kit (Cell media, Colorimetric) # K1205-100
ExoQuant™ Overall Exosome Capture and Quantification Assay Kit (human plasma, Luminometric) # K1206-100
ExoQuant™ Overall Exosome Capture and Quantification Assay Kit (human urine, Luminometric) # K1207-100
ExoQuant™ Overall Exosome Capture and Quantification Assay Kit (human serum, Luminometric) # K1208-100
ExoQuant™ Tumor-derived Exosome enrichment and Quantification Assay Kit (biological fluids/cell media, Luminometric) # K1209-100
ExoQuant™ Overall Exosome Capture and Quantification Assay Kit (cell media, Luminometric) # K1210-100

XII. General Troubleshooting Guide:

Problems	Cause	Solution
High background across entire plate	<ul style="list-style-type: none"> . Substrate incubation carried out in the light . Incubation temperature too high . Secondary antibody is too concentrated or left on too long . Substrate solution or stop solution is not fresh . Contaminants from laboratory glassware 	<ul style="list-style-type: none"> . Substrate incubation should be carried out in the dark . Antibodies have optimum binding activity at the correct temperature. Ensure that the incubations are carried out at the correct temperature and that incubators are set at the correct temperature and is working. The Incubation temperature may require some optimization . Check dilution of the secondary antibody. Use it at the recommended dilution. Stop the reaction using stop buffer as soon as the plate has developed enough for the absorbance readings . Use fresh substrate solution. Stop solution should be clear (if it has gone yellow, this is a sign of contamination and it should be replaced) . Ensure reagents are fresh and prepared in clean glassware
Positive results in negative control	<ul style="list-style-type: none"> . Contamination of reagents/samples . Insufficient washing of plates 	<ul style="list-style-type: none"> . May be contamination of reagents or samples. Avoid cross contamination between different wells. Use fresh reagents and pipette carefully . Ensure wells are washed adequately soak the wells with wash buffer and tap plate on absorbent paper after every wash
Low absorbance values	<ul style="list-style-type: none"> . Target protein not present in sample/Low level of target protein in sample . Insufficient primary or secondary antibody . Substrate solutions not fresh or 	<ul style="list-style-type: none"> . Check the expression profile of the target protein to ensure that it is present in your samples. If the quantity of target protein is very low, increase the amount of sample used, or try to concentrate. Ensure you are using a positive control within the detection range of the assay

