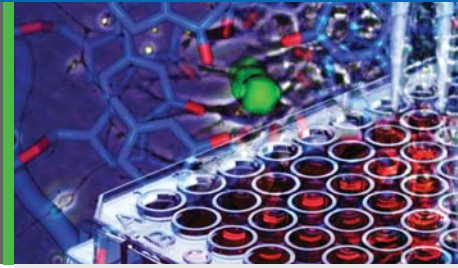


# Exosome Antibodies and ELISAs

Track and Quantitate Exosomes with Validated Antibody Systems



Exosomes are small membrane vesicles secreted by most cell types in vivo and in vitro. Exosomes are found in cell culture media, blood, urine, amniotic fluid, malignant ascite fluids and contain distinct subsets of microRNAs and proteins depending upon the tissue from which they are secreted. SBI's ExoELISA kits are designed for fast and quantitative analysis of three well-characterized exosomal protein markers: CD63, CD9, CD81 or Hsp70. The exosome antibody kits allow for the confirmation of exosome recoveries and the ExoELISA kit enables the specific quantitation of CD63, CD9 or CD81 positive exosome microvesicles. The exosome antibody and ExoELISA kits are fully compatible with exosomes isolated by SBI's ExoQuick or ExoQuick-TC as well as ultracentrifugation methods.

## Highlights

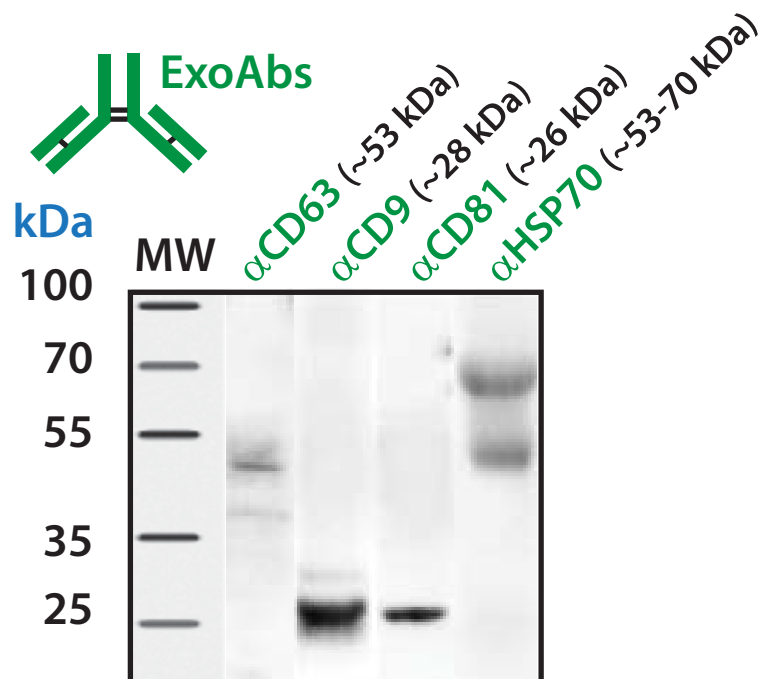
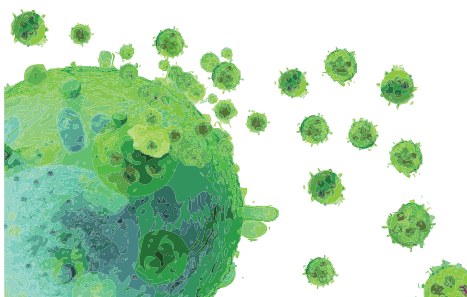
- Exosome antibodies for Westerns
- Validated CD63, CD9, CD81 and Hsp70
- Exosome ELISAs for quantitation
- Measure exact number of exosome particles isolated from your samples

## Exosome antibodies for Western blot analysis

For Western blotting analysis, we recommend resuspending the exosome pellet in 1XRIPA buffer with the appropriate protease inhibitor cocktail. SBI offers individual antibodies for CD63, CD9, CD81 and Hsp70 as well as a Western blot sampler kit (Catalog# EXOAB-KIT-1) which includes four exosomal marker antibodies: CD63, CD9, CD81, HSP70 (rabbit anti-human) and also includes a goat anti-Rabbit IgG HRP conjugated secondary antibody specifically tested for use in exosomal protein analysis. The primary antibodies are used at a 1:1,000 dilution and the HRP secondary antibody at 1:20,000 dilution.

## Four known exosome markers

- CD63 (rabbit anti-hCD63)
- CD9 (rabbit anti-hCD9)
- CD81 (rabbit anti-hCD81)
- Hsp70 (rabbit anti-hHsp70)
- Secondary goat anti-rabbit HRP included



ExoQuick Exosome Serum Western Analysis

# ExoELISA™ Exosome Quantitation Kits

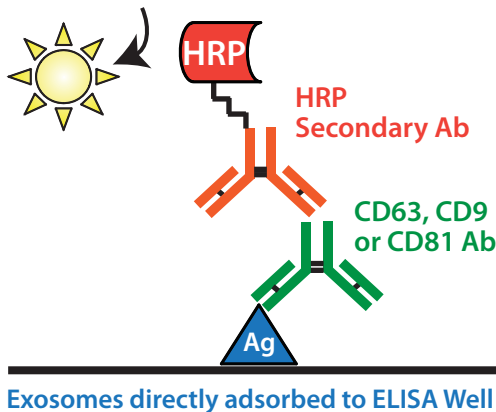
## Highly sensitive and quantitative ELISAs

The ExoELISA kit is designed as a direct Enzyme-Linked ImmunoSorbent Assay (ELISA). The exosome particles and their proteins are directly immobilized onto the wells of the microtiter plate. After binding, wells are coated with a block agent to prevent non-specific binding of the detection antibody. The detection (primary) antibody is added to the wells for binding to specific antigen (e.g. CD63) protein on the exosomes. ExoELISA kits come with exosome standards to make calibration curves.

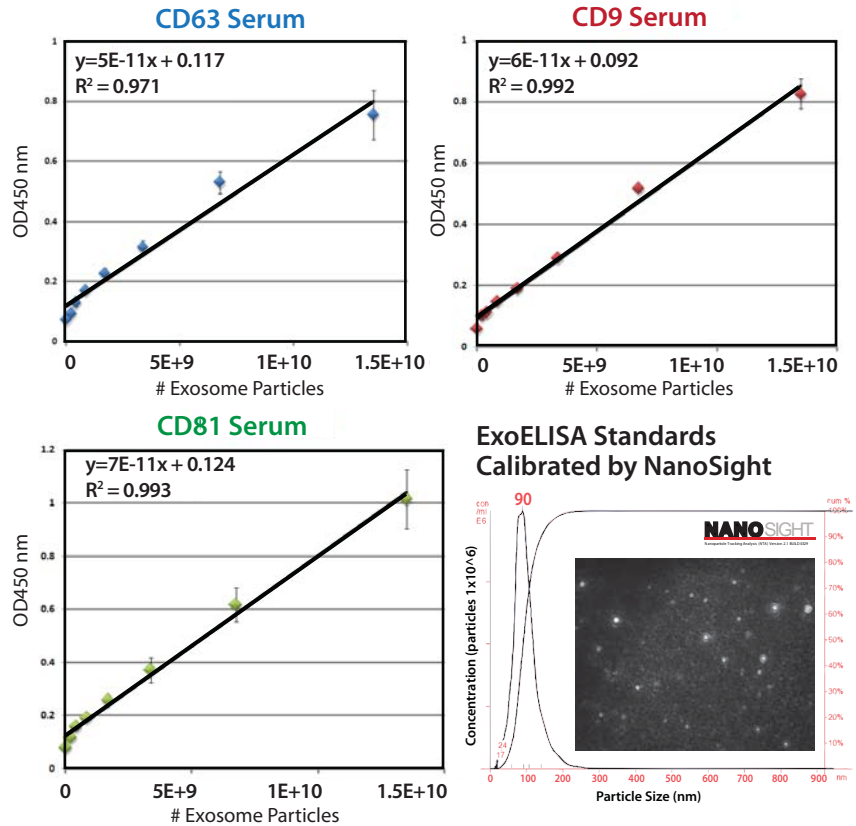
### Three primary antibody detection formats:

- CD63 ExoELISA, catalog# EXOEL-CD63A-1
- CD9 ExoELISA, catalog# EXOEL-CD9A-1
- CD81 ExoELISA, catalog# EXOEL-CD81A-1

#### TMB Substrate



#### ExoELISA™ Plate



A Horseradish Peroxidase enzyme (HRP) linked secondary antibody (goat anti-rabbit) is used for signal amplification and to increase assay sensitivity. A colorimetric substrate (Extra-sensitive TMB) is used for the assay read-out. The accumulation of the colored product is proportional to the specific antigen present in each well. The results are quantitated by a microtiter plate reader at 450 nm absorbance and calibrated by the exosome standards provided in the kit. The exosome standards are provided in number of exosome particles as determined by NanoSight dynamic light scattering measurements. The ExoELISA kits are compatible with exosomes isolated by ExoQuick, ExoQuick-TC or by ultracentrifugation techniques.

## We Also Offer Custom Services

System Biosciences offers a wide-range of custom services to support your research, allowing you to spend less time making tools, and more time making discoveries. To learn more, visit our website at [www.systembio.com/service](http://www.systembio.com/service) or call us at 888-266-5066.



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