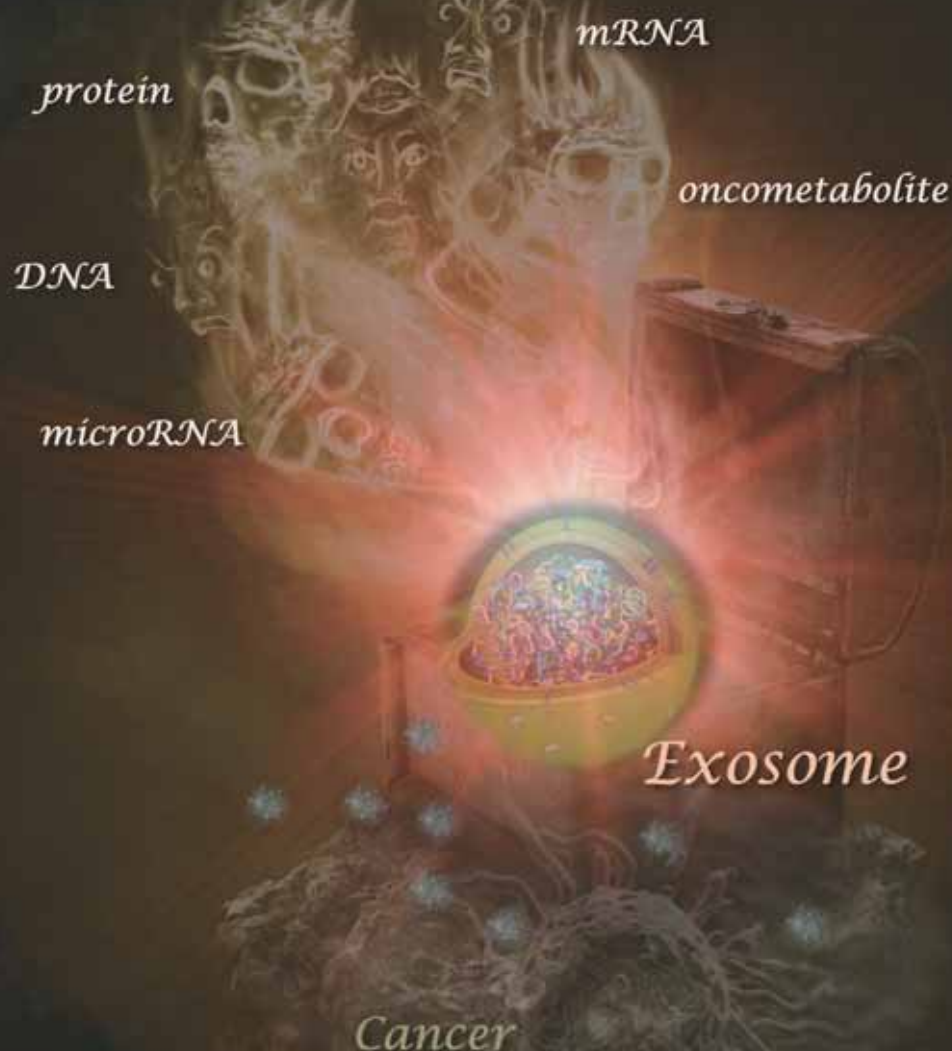


Antibodies for Exosome Isolation

Anti CD9, CD63, CD81 Antibodies



Feature and Advantages

- High specificity for exosome membrane proteins CD9, CD63, CD81
- 100% of exosomes in a 150 μ l sample can be isolated by using only 1 μ g of antibody
- Useful for analyses of exosome surface antigen proteins, endogenous RNA (miRNA) and proteins

ExoTrap Spin Columns utilize immobilized CD9 antibody to capture exosomes from biological fluids in as little as 30 minutes. The contents of the captured exosomes are then readily processed for downstream analysis by western blotting, mass spectrometry, PCR, or sequencing, etc.

International Application No.: PCT/JP2012/083612

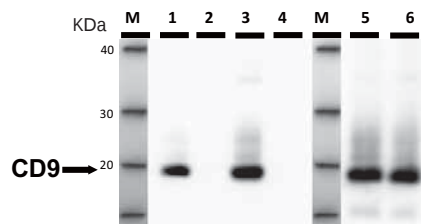
Antibodies for Exosome Isolation

Anti CD9, CD63, CD81 Antibodies



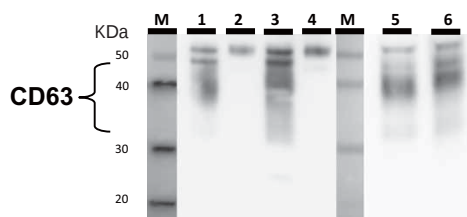
Exosome are cell-derived vesicles formed by a lipid bilayer membrane, and its diameter is 40-100 nm. Exosomes are observed in body fluid, such as saliva, blood, urine, amniotic fluid, malignant ascites, and are secreted from cultured cells. Recently, it has been shown that exosomes include various proteins and RNAs, which have a possibility to function in intercellular signal transduction. These products are the antibodies which can specifically detect CD9, CD63 and CD81 known as exosome markers. These antibodies are suitable for isolation of exosome by immunoprecipitation.

Example 1
IP-WB of exosome in serum sample using Anti-CD9 antibody (12A12)



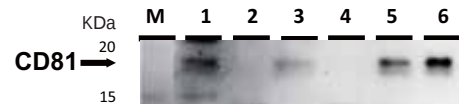
- Sample
- | | |
|-----------------------------|--------------------------------|
| 1. Anti-CD9 (12A12) Serum A | 4. Control antibody Serum B |
| 2. Control antibody Serum A | 5. Ultracentrifugation Serum A |
| 3. Anti-CD9 (12A12) Serum B | 6. Ultracentrifugation Serum B |

Example 2
Immunoprecipitation in Human serum exosome



- Sample
- | | |
|-----------------------------|--------------------------------|
| 1. Anti-CD63 (8A12) Serum A | 4. Control antibody Serum B |
| 2. Control antibody Serum A | 5. Ultracentrifugation Serum A |
| 3. Anti-CD63 (8A12) Serum B | 6. Ultracentrifugation Serum B |

Example 3
Immunoprecipitation in Human serum exosome



- Sample
- | | |
|-----------------------------|--------------------------------|
| 1. Anti-CD81 (12C4) Serum A | 4. Control antibody Serum B |
| 2. Control antibody Serum A | 5. Ultracentrifugation Serum A |
| 3. Anti-CD81 (12C4) Serum B | 6. Ultracentrifugation Serum B |

Description	Cat. No.	Quantity	Storage
Anti CD9 for Exosome Isolation	CAC-SHI-EXO-M01-EX	100 µL	-20
Anti CD63 for Exosome Isolation	CAC-SHI-EXO-M02-EX	100 µL	-20
Anti CD81 for Exosome Isolation	CAC-SHI-EXO-M03-EX	100 µL	-20
ExoTrap Exosome Isolation Spin Column	CSR-SHI-EXO-K010	10 prep.	4



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