

## ExoBrite™ CD63 Western Antibody

Validated antibody for optimal detection of EV marker CD63 in extracellular vesicle (EV) extracts by fluorescent western blot or chemiluminescence.



### Product Description

ExoBrite™ CD63 Western Antibody is validated by Biotium for optimal detection of extracellular vesicle (EV) marker CD63 in EV extracts by fluorescent western blot. It is available conjugated to ExoBrite™ 680/700 or ExoBrite™ 770/800 near-infrared fluorescent dyes, which offer greater signal-to-noise than visible light fluorescent dyes for western blotting, as well as in an HRP-conjugated format for chemiluminescent detection.

- Optimal detection of EV marker CD63 by fluorescent western blot or chemiluminescence
- Validated for use with EV extracts
- Bright signal and low background
- Available in 2 near-infrared colors and HRP

EVs, including exosomes, are lipid-bound vesicles that are released from cells. EVs display specific surface proteins and can carry nucleic acids and other cargo, allowing them to transfer biological information between cells in different parts of the body. Therefore EVs are increasingly studied for their potential use in drug delivery and medical diagnostic applications. The most common proteins used as EV markers are CD9, CD63, and CD81, members of the tetraspanin family. Tetraspanins are plasma membrane proteins with many proposed functions, including activation and sorting of other membrane proteins. They are also thought to play a role in the targeting of proteins to multivesicular bodies (MVBs) and exosomes. These tetraspanins are broadly expressed on many cell types and can therefore be detected on many types of EVs, but their expression levels vary depending on the cell type of origin.

#### EV antibodies you can trust

Other commercially available antibodies for tetraspanin proteins CD9, CD63, and CD81 are generally not validated for isolated EVs and may require tedious optimization for your EV prep and staining protocol. ExoBrite™ Western Antibody Conjugates were validated to offer bright signal and low background of EV markers in EV extracts. [ExoBrite™ Calnexin Western Antibody](#) detects a protein of the endoplasmic reticulum that is not found in EVs. It is offered as a negative control to assess the purity of isolated EV extracts.

If you are using secondary antibodies for western detection, Biotium also offers unconjugated recombinant antibodies against [CD9](#), [CD63](#), and [CD81](#). [ExoBrite™ Flow Antibody Conjugates](#) are also available for optimal detection of CD9, CD63, and CD81 EV markers by flow cytometry.

For general EV staining, Biotium offers ExoBrite™ stains conjugated to [cholera toxin B \(CTB\)](#), [wheat germ agglutinin \(WGA\)](#), and [Annexin V](#). These stains are specially formulated for bright and specific detection of isolated EVs by flow cytometry. These ExoBrite™ stains may also be combined with antibody staining, for multi-parameter analysis.

Call us : [800-304-5357](tel:800-304-5357)

### Product attributes

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| <b>Antibody number</b>                       | #P004  |
| <b>SwissProt</b>                             | P08962   |
| <b>Antibody type</b>                         | Primary  |
| <b>Clonality</b>                             | Monoclonal   |
| <b>Host species</b>                          | Mouse  |
| <b>Isotype</b>                               | IgG1, kappa  |
| <b>Antibody reactivity (target)</b>          | CD63   |
| <b>Synonyms</b>                              | gp55; granulophysin; Lysosomal-associated membrane protein 3 (LAMP-3); Mast cell antigen AD1; melanoma 1 antigen; Melanoma-associated antigen MLA1; Melanoma-associated antigen ME491; MLA1; NGA; Ocular melanoma-associated antigen; OMA81H; PTLGP40; Tetraspanin-30; TSPAN30 |
| <b>Species reactivity</b>                    | Baboon, Cynomolgus monkey, Human, Non-human primates   |
| <b>Human gene symbol</b>                     | CD63   |
| <b>Entrez gene ID</b>                        | 967  |
| <b>Unigene</b>                               | 445570   |
| <b>Molecular weight</b>                      | 26 kDa (core protein); 30-60 kDa (glycosylated)  |
| <b>Antibody target cellular localization</b> | Exosomes/EVs, Lysosomes, Plasma membrane, Membrane/vesicular, Multivesicular bodies  |
| <b>Cell/tissue expression</b>                | Exosomes, Platelets, Granulocytes, Lymphocytes, Monocytes/macrophages  |
| <b>Verified antibody applications</b>        | WB (verified)  |
| <b>Shipping condition</b>                    | Room temperature   |
| <b>Positive control</b>                      | MCF-7 cells, MCF-7 derived exosomes  |
| <b>Antibody application notes</b>            | Optimal concentration to be determined by end-user, Recommended amount for western blot: 100 ng/mL = 1:1000 dilution   |
| <b>Antibody research areas</b>               | Exosomes/EVs   |
| <b>Antibody/conjugate formulation</b>        | Fluorescent conjugates: PBS, 0.1% BSA, 0.05% azide, HRP conjugates: PBS/50% glycerol/2 mg/mL rBSA  |
| <b>Shelf life</b>                            | Guaranteed for at least 24 months from date of receipt when stored as recommended  |
| <b>Storage Conditions</b>                    | Store at 2 to 8 °C, Protect fluorescent conjugates from light  |
| <b>Regulatory status</b>                     | For research use only (RUO)  |
| <b>Product origin</b>                        | Product may contain either bovine serum albumin (BSA) from bovine serum ( <i>Bos taurus</i> ), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.   |

## ExoBrite™ Western Antibody Conjugates

| Antibody  | Ex/Em         | Conc.     | Size     | Catalog No.  |
|---|---------------|-----------|----------|--------------|
| <a href="#">ExoBrite™ 680/700<br/>CD9 Western Antibody</a>          | 681/698 nm    | 100 ug/mL | 25 tests | P003-680-250 |
| 100 tests   | P003-680-1000 |           |          |              |
| <a href="#">ExoBrite™ 770/800<br/>CD9 Western Antibody</a>          | 770/797 nm    | 100 ug/mL | 25 tests | P003-770-250 |
| 100 tests   | P003-770-1000 |           |          |              |
| <a href="#">ExoBrite™ 680/700<br/>CD63 Western Antibody</a>         | 681/698 nm    | 100 ug/mL | 25 tests | P004-680-250 |
| 100 tests   | P004-680-1000 |           |          |              |
| <a href="#">ExoBrite™ 770/800<br/>CD63 Western Antibody</a>         | 770/797 nm    | 100 ug/mL | 25 tests | P004-770-250 |
| 100 tests   | P004-770-1000 |           |          |              |
| <a href="#">ExoBrite™ 680/700<br/>CD81 Western Antibody</a>         | 681/698 nm    | 100 ug/mL | 25 tests | P006-680-250 |
| 100 tests   | P006-680-1000 |           |          |              |
| <a href="#">ExoBrite™ 770/800<br/>CD81 Western Antibody</a>         | 770/797 nm    | 100 ug/mL | 25 tests | P006-770-250 |
| 100 tests   | P006-770-1000 |           |          |              |
| <a href="#">ExoBrite™ 770/800<br/>Calnexin Western<br/>Antibody</a> | 770/797 nm    | 100 ug/mL | 25 tests | P007-770-250 |
| 100 tests   | P007-770-1000 |           |          |              |

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