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# ExoBrite™ Armenian Hamster IgG Isotype Control Flow Antibody



Armenian hamster antibody that serves as a negative control for ExoBrite™ Flow Antibodies when detecting purified or bead-bound EVs by flow cytometry.

## Product attributes

| | |
|---|---|
| **Antibody number** | #P056 |
| **Antibody reactivity (target)** | None |
| **Antibody type** | ExoBrite™, Primary, Isotype Control |
| **Host species** | Armenian Hamster |
| **Clonality** | Monoclonal |
| **Verified antibody applications** | Flow (surface) (verified) |
| **Antibody application notes** | Recommended concentration for flow cytometry: 5 uL per 0.1 mL exosomes |
| **Shipping condition** | Room temperature |
| **Storage Conditions** | Store at 2 to 8 °C, Protect fluorescent conjugates from light |
| **Shelf life** | Guaranteed for at least 24 months from date of receipt when stored as recommended |
| **Regulatory status** | For research use only (RUO) |
| **Antibody/conjugate formulation** | Proprietary buffer containing 0.05% sodium azide |
| **Product origin** | Hamster (Nothocricetulus); Recombinant BSA produced in Chinese hamster ovary cells. |
| **Antibody research areas** | Exosomes/EVs |
| **Volume per assay** | 5 uL/test |
| **Species reactivity** | None (isotype control) |

## Product Description

ExoBrite™ Armenian Hamster IgG Isotype Control Flow Antibody can be used as a negative control for Armenian hamster ExoBrite™ Antibodies. This antibody was chosen as an isotype control of Armenian hamster after screening on a variety of resting, activated, live, and fixed mouse, rat, and human tissues. The antibody is available with the same conjugates as ExoBrite™ Flow Antibodies for the Pacific Blue™, FITC, PE, and APC channels.

- IgG Armenian hamster antibody
- Serves as a negative control for Armenian hamster ExoBrite™ Antibodies
- ExoBrite™ Antibodies feature an optimized buffer to improve signal-to-noise for EV detection
- Available in 5 colors

Biotium also offers validated ExoBrite™ Flow Antibodies for tetraspanin proteins CD9, CD63, CD81 and other EV markers. This antibody can serve as a negative control for ExoBrite™ CD81 (Mouse/Rat) Flow Antibody.

**EV antibodies you can trust**

Other commercially available antibodies against mouse and human 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. The antibodies and dye labels of ExoBrite™ Flow Antibody Conjugates were carefully selected and validated for robust detection of isolated EVs. In addition, the antibodies are provided in a proprietary buffer formulation for reduced antibody aggregation and brighter EV staining for optimal accuracy and signal-to-noise. Single-color and 3-color ExoBrite™ CD9/CD63/CD81 Antibody Cocktails for human tetraspanin proteins are also available for high-coverage EV staining or EV phenotyping, respectively.

For general EV staining, Biotium's ExoBrite™ True EV Membrane Stains offer unparalleled coverage of EVs in a sample and address issues of dye aggregation often seen with PKH and other common membrane dyes. Biotium also offers optimized ExoBrite™ EV Surface 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™ EV Surface stains may also be combined with antibody staining, for multi-parameter analysis.

Biotium offers conjugated ExoBrite™ Western Antibodies against human CD9, CD63, and CD81 designed for optimal detection in EV extracts by fluorescent western blot.

**Note:** In our testing, we have found that ExoBrite™ 490/515 dye may bind to streptavidin coated surfaces or beads if free biotin binding sites are not blocked. We recommend performing a biotin blocking step after binding your biotinylated capture antibody to streptavidin beads or surfaces when using ExoBrite™ 490/515 conjugates. Alternatively, consider using a different ExoBrite™ dye for staining EVs captured on streptavidin beads or surfaces.

## ExoBrite™ Flow Antibody Conjugates

| Antibody | Ex/Em | Target | Species Reactivity | Detection Channel | Catalog No. |
|---|---|---|---|---|---|
| ExoBrite™ 410/450 CD9 Flow Antibody | 409/452 nm | CD9 | Human | Pacific Blue ™ | P003-410 |
| ExoBrite™ 490/515 CD9 Flow Antibody | 490/516 nm | CD9 | Human | FITC | P003-490 |
| ExoBrite™ 560/585 CD9 Flow Antibody | 562/584 nm | CD9 | Human | PE | P003-560 |
| ExoBrite™ 640/660 CD9 Flow Antibody | 642/663 nm | CD9 | Human | APC | P003-640 |
| ExoBrite™ R-PE CD9 Flow Antibody | 496, 546, 565/578 nm | CD9 | Human | PE | P003-RPE |
| ExoBrite™ APC CD9 Flow Antibody | 651/660 nm | CD9 | Human | APC | P003-APC |
| ExoBrite™ 410/450 CD9 (Mouse) Flow Antibody | 409/452 nm | CD9 | Mouse | Pacific Blue ™ | P018-410 |
| ExoBrite™ 490/515 CD9 (Mouse) Flow Antibody | 490/516 nm | CD9 | Mouse | FITC | P018-490 |
| ExoBrite™ 560/585 CD9 (Mouse) Flow Antibody | 562/584 nm | CD9 | Mouse | PE | P018-560 |

| Antibody | Ex/Em | Target | Species Reactivity | Detection Channel | Catalog No. |
|---|---|---|---|---|---|
| ExoBrite™ 640/660 CD9 (Mouse) Flow Antibody | 642/663 nm | CD9 | Mouse | APC | P018-640 |
| ExoBrite™ APC CD9 (Mouse) Flow Antibody | 651/660 nm | CD9 | Mouse | APC | P018-APC |
| ExoBrite™ 410/450 CD47 Flow Antibody | 409/452 nm | CD47 | Human, Mouse | Pacific Blue ™ | P061-410 |
| ExoBrite™ 490/515 CD47 Flow Antibody | 490/516 nm | CD47 | Human, Mouse | FITC | P061-490 |
| ExoBrite™ 560/585 CD47 Flow Antibody | 562/584 nm | CD47 | Human, Mouse | PE | P061-560 |
| ExoBrite™ 640/660 CD47 Flow Antibody | 642/663 nm | CD47 | Human, Mouse | APC | P061-640 |
| ExoBrite™ 410/450 CD63 Flow Antibody | 409/452 nm | CD63 | Human | Pacific Blue ™ | P004-410 |
| ExoBrite™ 490/515 CD63 Flow Antibody | 490/516 nm | CD63 | Human | FITC | P004-490 |
| ExoBrite™ 560/585 CD63 Flow Antibody | 562/584 nm | CD63 | Human | PE | P004-560 |
| ExoBrite™ 640/660 CD63 Flow Antibody | 642/663 nm | CD63 | Human | APC | P004-640 |
| ExoBrite™ R-PE CD63 Flow Antibody | 496, 546, 565/578 | CD63 | Human | PE | P004-RPE |
| ExoBrite™ APC CD63 Flow Antibody | 651/660 nm | CD63 | Human | APC | P004-APC |
| ExoBrite™ 410/450 CD63 (Mouse) Flow Antibody | 409/452 nm | CD63 | Mouse | Pacific Blue ™ | P022-410 |
| ExoBrite™ 490/515 CD63 (Mouse) Flow Antibody | 490/516 nm | CD63 | Mouse | FITC | P022-490 |
| ExoBrite™ 560/585 CD63 (Mouse) Flow Antibody | 562/584 nm | CD63 | Mouse | PE | P022-560 |
| ExoBrite™ 640/660 CD63 (Mouse) Flow Antibody | 642/663 nm | CD63 | Mouse | APC | P022-640 |
| ExoBrite™ APC CD63 (Mouse) Flow Antibody | 651/660 nm | CD63 | Mouse | APC | P022-APC |
| ExoBrite™ 410/450 CD81 Flow Antibody | 409/452 nm | CD81 | Human | Pacific Blue ™ | P005-410 |
| ExoBrite™ 490/515 CD81 Flow Antibody | 490/516 nm | CD81 | Human | FITC | P005-490 |
| ExoBrite™ 560/585 CD81 Flow Antibody | 562/584 nm | CD81 | Human | PE | P005-560 |
| ExoBrite™ 640/660 CD81 Flow Antibody | 642/663 nm | CD81 | Human | APC | P005-640 |
| ExoBrite™ R-PE CD81 Flow Antibody | 496, 546, 565/578 | CD81 | Human | PE | P005-RPE |
| ExoBrite™ APC CD81 Flow Antibody | 651/660 nm | CD81 | Human | APC | P005-APC |
| ExoBrite™ 410/450 CD81 (Mouse/Rat) Flow Antibody | 409/452 nm | CD81 | Mouse, Rat | Pacific Blue ™ | P019-410 |
| ExoBrite™ 490/515 CD81 (Mouse/Rat) Flow Antibody | 490/516 nm | CD81 | Mouse, Rat | FITC | P019-490 |
| ExoBrite™ 560/585 CD81 (Mouse/Rat) Flow Antibody | 562/584 nm | CD81 | Mouse, Rat | PE | P019-560 |
| ExoBrite™ 640/660 CD81 (Mouse/Rat) Flow Antibody | 642/663 nm | CD81 | Mouse, Rat | APC | P019-640 |
| ExoBrite™ APC CD81 (Mouse/Rat) Flow Antibody | 651/660 nm | CD81 | Mouse, Rat | APC | P019-APC |
| ExoBrite™ 410/450 CD29 Flow Antibody | 409/452 nm | CD29 | Human | Pacific Blue ™ | P040-410 |
| ExoBrite™ 490/515 CD29 Flow Antibody | 490/516 nm | CD29 | Human | FITC | P040-490 |
| ExoBrite™ 560/585 CD29 Flow Antibody | 562/584 nm | CD29 | Human | PE | P040-560 |
| ExoBrite™ 640/660 CD29 Flow Antibody | 642/663 nm | CD29 | Human | APC | P040-640 |
| ExoBrite™ 410/450 IgG1 Isotype Control Flow Antibody | 409/452 nm | Isotype Control | None | Pacific Blue ™ | P008-410 |

| Antibody | Ex/Em | Target | Species Reactivity | Detection Channel | Catalog No. |
|---|---|---|---|---|---|
| ExoBrite™ 490/515 IgG1 Isotype Control Flow Antibody | 490/516 nm | Isotype Control | None | FITC | P008-490 |
| ExoBrite™ 560/585 IgG1 Isotype Control Flow Antibody | 562/584 nm | Isotype Control | None | PE | P008-560 |
| ExoBrite™ R-PE IgG1 Isotype Control Flow Antibody | 496, 546, 565/578 | Isotype Control | None | PE | P008-RPE |
| ExoBrite™ 640/660 IgG1 Isotype Control Flow Antibody | 642/663 nm | Isotype Control | None | APC | P008-640 |
| ExoBrite™ APC IgG1 Isotype Control Flow Antibody | 651/660 nm | Isotype Control | None | APC | P008-APC |
| ExoBrite™ Armenian Hamster IgG Isotype Control Flow Antibody | 409/452 nm | Isotype Control | None | Pacific Blue ™ | P056-410 |
| ExoBrite™ 490/515 Armenian Hamster IgG Isotype Control Flow Antibody | 490/516 nm | Isotype Control | None | FITC | P056-490 |
| ExoBrite™ 560/585 Armenian Hamster IgG Isotype Control Flow Antibody | 562/584 nm | Isotype Control | None | PE | P056-560 |
| ExoBrite™ 640/660 Armenian Hamster IgG Isotype Control Flow Antibody | 642/663 nm | Isotype Control | None | APC | P056-640 |
| ExoBrite™ Armenian Hamster IgG Isotype Control Flow Antibody | 651/660 nm | Isotype Control | None | APC | P056-APC |
| ExoBrite™ 410/450 Rat IgG2a Isotype Control Flow Antibody | 409/452 nm | Isotype Control | None | Pacific Blue ™ | P057-410 |
| ExoBrite™ 490/515 Rat IgG2a Isotype Control Flow Antibody | 490/516 nm | Isotype Control | None | FITC | P057-490 |
| ExoBrite™ 560/585 Rat IgG2a Isotype Control Flow Antibody | 562/584 nm | Isotype Control | None | PE | P057-560 |
| ExoBrite™ 640/660 Rat IgG2a Isotype Control Flow Antibody | 642/663 nm | Isotype Control | None | APC | P057-640 |
| ExoBrite™ APC Rat IgG2a Isotype Control Flow Antibody | 651/660 nm | Isotype Control | None | APC | P057-APC |

## ExoBrite™ Flow Anti-Human CD9/CD63/CD81 Antibody Cocktails

| Cocktail | Ex/Em | Detection Channel | Size | Catalog No. |
|---|---|---|---|---|
| ExoBrite™ CD9/CD63/CD81 Single-Color Antibody Cocktail (Green) | 490/516 nm | FITC | 25 tests | P030-125 |
| 100 tests | P030-500 | | | |
| ExoBrite™ CD9/CD63/CD81 Single-Color Antibody Cocktail (Orange) | 562/584 nm | PE | 25 tests | P031-125 |
| 100 tests | P031-500 | | | |
| ExoBrite™ CD9/CD63/CD81 Single-Color Antibody Cocktail (Far-Red) | 642/663 nm | APC | 25 tests | P032-125 |
| 100 tests | P032-500 | | | |
| ExoBrite™ CD9/CD63/CD81 3-Color Antibody Cocktail (Blue/Green/Far-Red) | 409/452 nm<br>490/516 nm<br>642/663 nm | Pacific Blue®<br>FITC<br>APC | 25 tests | P028-125 |
| 100 tests | P028-500 | | | |

| Cocktail | Ex/Em | Detection Channel | Size | Catalog No. |
|---|---|---|---|---|
| ExoBrite™ CD9/CD63/CD81 3-Color Antibody Cocktail (Green/Orange/Far-Red) | 490/516 nm<br>562/584 nm<br>642/663 nm | FITC<br>PE<br>APC | 25 tests | P029-125 |
| | | | 100 tests | P029-500 |

## ExoBrite™ Antibody Target Info

| Target | Relevance in EVs | References for Target in EVs | Antibody |
|---|---|---|---|
| CD9 | Tetraspanin; common EV marker | Kowal et al., 2016; Théry et al., 2018; Spitzberg et al., 2023 | ExoBrite™ CD9 Flow Antibody<br>ExoBrite™ CD9 (Mouse) Flow Antibody<br>ExoBrite™ CD9 Western Antibody |
| CD29 (Integrin beta 1) | Integrin cell surface glycoprotein found on EV surfaces. Has broad tissue expression and commonly found in EV proteomic analysis. | Hoshino et al., 2015; Hazawa et al., 2014; Kugeratski et al., 2021; Spitzberg et al., 2023 | ExoBrite™ CD29 Flow Antibody |
| CD47 | Associates with integrins; regulates trafficking of RNAs into EVs; may contribute to immune evasion on target cells. Has broad tissue expression and commonly found in EV proteomic analysis. | Kamerkar et al., 2017; Li et al., 2022; Kugeratski et al., 2021; Spitzberg et al., 2023 | ExoBrite™ CD47 Flow Antibody |
| CD63 | Tetraspanin; common EV marker | Escola et al., 1998; Kowal et al., 2016; Spitzberg et al., 2023 | ExoBrite™ CD63 Flow Antibody<br>ExoBrite™ CD63 (Mouse) Flow Antibody<br>ExoBrite™ CD63 Western Antibody |
| CD81 | Tetraspanin; common EV marker | Escola et al., 1998; Kowal et al., 2016; Spitzberg et al., 2023 | ExoBrite™ CD81 Flow Antibody<br>ExoBrite™ CD81 (Mouse/Rat) Flow Antibody<br>ExoBrite™ CD81 Western Antibody |
| CD98 (SLC3A2) | Has broad tissue expression and commonly found in EV proteomic analysis. | Mathieu et al., 2021; Liao et al., 2024; Tissot et al., 2024; Kugeratski et al., 2021; Spitzberg et al., 2023 | ExoBrite™ CD98 Flow Antibody |
| Syntenin-1 | Involved in EV biogenesis, plays a role in tumor growth, invasion, and metastasis | Mathieu et al., 2021; Kugeratski et al., 2021; Spitzberg et al., 2023; Baietti et al., 2012 | ExoBrite™ Syntenin-1 Flow Antibody |
| Galectin 3-BP | Secreted protein abundant in EV proteomic studies | | ExoBrite™ Galectin 3-BP Flow Antibody |

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