

CD63 Monoclonal Mouse Antibody (H5C6) - Biotium Choice

CD63 (clone H5C6) is a validated mouse monoclonal antibody that recognizes the human tetraspanin protein CD63. The antibody belongs to the Biotium Choice list of select antibodies that have been validated and optimized in-house for optimal performance.



Product Description

Note: CD63 clone H5C6 is being discontinued and has been replaced by [CD63 Recombinant Monoclonal Mouse Antibody \(2304.63\) – Biotium Choice](#), which has been validated to have the same bright and specific staining of human CD63.

CD63 (clone H5C6) is a mouse monoclonal antibody that recognizes the human tetraspanin protein CD63. This antibody belongs to the Biotium Choice list of select antibodies that have been validated and optimized in-house for optimal performance. This antibody has been validated in flow cytometry, in immunofluorescence microscopy, and in western blot. The antibody is available conjugated to a selection of bright CF® Dyes. It is supplied in PBS, 0.1% BSA, 0.05% azide or purified at 0.5 mg/mL, BSA-free.

The tetraspanins are integral membrane proteins expressed on cell surface and granular membranes of hematopoietic cells and are components of multi-molecular complexes with specific integrins. The tetraspanin CD63 is a lysosomal membrane glycoprotein that translocates to the plasma membrane after platelet activation. CD63 is expressed on activated platelets, monocytes and macrophages, and is weakly expressed on granulocytes, T cell and B cells. It is located on the basophilic granule membranes and on the plasma membranes of lymphocytes and granulocytes. CD63 is a member of the TM4 superfamily of leukocyte glycoproteins that includes CD9, CD37 and CD53, which contain four transmembrane regions. CD63 may play a role in phagocytic and intracellular lysosome-phagosome fusion events. CD63 deficiency is associated with Hermansky-Pudlak syndrome and is strongly expressed during the early stages of melanoma progression.

Tetraspanin proteins CD9, CD63, and CD81, are the most common proteins used as exosome markers. 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 exosomes, but their expression levels vary depending on the cell type of origin.

As an isotype control, we recommend [Isotype Control, Monoclonal Mouse IgG1 Kappa \(IGG1/1331\)](#) for this antibody. [View our full catalog of Biotium Choice antibodies](#), optimized and validated for the best results in flow cytometry.

Exosome Stains and Antibodies

Biotium also offers [ExoBrite™ CD63 Flow Antibody](#) and [ExoBrite™ CD63 Western Antibody](#) that are validated for optimal detection of isolated exosomes by flow cytometry or western blotting. [Learn more about our products for exosome research.](#)

Discover Sharper Signals and Unmatched Panel Flexibility with Biotium Choice Antibodies

Powered by CF® Dyes and Astral Leap™ Tandem Dyes

Biotium Choice antibodies are carefully curated and validated in-house to offer exceptional signal-to-noise. Labeled with our advanced CF® Dyes and Astral Leap™ tandem dyes, they are our top-recommended antibodies for flow cytometry and other applications.

Biotium Choice Antibody Features

- Robust and validated clones against common targets
- Developed and optimized for flow cytometry and other applications
- Conjugated to bright, photostable [CF® Dyes](#) for superior signal and clarity
- Also available with [Astral Leap™ tandem dyes](#) for expanding multiplexing
- New antibody clones and dye conjugates continuously in development

[View our full catalog of Biotium Choice antibodies](#)

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

Product attributes

| | |
|---------------------------------------|--|
| Antibody number | #P004 |
| SwissProt | P08962 |
| Biotium Choice Antibody | Primary |
| Antibody type | Biotium Choice Flow Antibodies, Primary |
| Clonality | Monoclonal |
| Host species | Mouse |
| Clone | H5C6 |
| Isotype | IgG1, kappa |
| Antibody reactivity (target) | CD63 |
| Synonyms | 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 |
| Species reactivity | Baboon, Cynomolgus monkey, Human, Non-human primates |
| Human gene symbol | CD63 |
| Entrez gene ID | 967 |
| Unigene | 445570 |
| Molecular weight | 26 kDa (core protein); 30-60 kDa (glycosylated) |
| Antibody target cellular localization | Exosomes/EVs, Lysosomes, Plasma membrane, Membrane/vesicular, Multivesicular bodies |
| Cell/tissue expression | Exosomes, Platelets, Granulocytes, Lymphocytes, Monocytes/macrophages |
| Verified antibody applications | Flow (surface) (verified), IF (verified), WB (verified) |
| Positive control | U87MG, SK-MEL-28, HL60, THP-1, NIH/3T3, or MCF-7 cells. Human melanoma, spleen or lymphoma tissue. |
| Antibody application notes | Flow Cytometry: 0.5-1 ug/mL (or, 0.05-0.1 ug/million cells), Immunofluorescence: 1 ug/mL, Western Blot: 0.1 ug/mL |
| Antibody research areas | Exosomes/EVs |
| Antibody/conjugate formulation | Purified: 0.5 mg/mL in PBS/0.05% azide, Conjugates: PBS/0.1% BSA/0.05% azide |
| Shelf life | Guaranteed for at least 24 months from date of receipt when stored as recommended |
| Volume per assay | 5 uL/test |
| Storage Conditions | Store at 2 to 8 °C |
| Regulatory status | For research use only (RUO) |
| Product origin | 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. |

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| Conjugation | Ex/Em | Conc. | Size | Catalog No. | Availability |
|-------------------------------------|-------------------------------|-----------|-------------------|-------------------------------|---|
| CF@405M | 416/452 nm | 100 ug/mL | 25 tests (125 uL) | P004S-405M-125 | Discontinued, see replacement P013-405M |
| 100 tests (500 uL) | P004S-405M-500 | | | | |
| CF@488A | 490/516 nm | 100 ug/mL | 25 tests (125 uL) | P004S-488A-125 | Discontinued, see replacement P013-488A |
| 100 tests (500 uL) | P004S-488A-500 | | | | |
| CF@568 | 562/584 nm | 100 ug/mL | 25 tests (125 uL) | P004S-568-125 | Discontinued, see replacement P013-568 |
| 100 tests (500 uL) | P004S-568-500 | | | | |
| CF@700 | 696/721 nm | 100 ug/mL | 25 tests (125 uL) | P004S-700-125 | Discontinued, see replacement P013-700 |
| 100 tests (500 uL) | P004S-700-500 | | | | |
| R-PE | 496, 546, 565/576 nm | 100 ug/mL | 25 tests (125 uL) | P004S-RPE-125 | Available |
| 100 tests (500 uL) | P004S-RPE-500 | | | | |
| Purified (BSA-free) | N/A | 0.5 mg/mL | 200 uL (100 ug) | P004-200uL | Available |

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