Product Datasheet

CD63 Antibody (H5C6)
NBP2-42225

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

www.novusbio.com  technical@novusbio.com

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Updated 10/30/2018 v.20.1
# NBP2-42225
## CD63 Antibody (H5C6)

### Product Information

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Unit Size</td>
<td>0.1 ml</td>
</tr>
<tr>
<td>Concentration</td>
<td>1.0 mg/ml</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Monoclonal</td>
</tr>
<tr>
<td>Clone</td>
<td>H5C6</td>
</tr>
<tr>
<td>Preservative</td>
<td>0.05% Sodium Azide</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG1 Kappa</td>
</tr>
<tr>
<td>Purity</td>
<td>Protein G purified</td>
</tr>
<tr>
<td>Buffer</td>
<td>PBS</td>
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</tbody>
</table>

### Product Description

- **Host**: Mouse
- **Gene ID**: 967
- **Gene Symbol**: CD63
- **Species**: Human, Canine
- **Marker**: Exosome Marker
- **Immunogen**: Human splenic adherent cells.

### Product Application Details

- **Applications**: Western Blot, Dot Blot, ELISA, Electron Microscopy, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/Immunofluorescence, Immunoprecipitation
- **Recommended Dilutions**: Western Blot, Flow Cytometry 1:1000, ELISA, Immunocytochemistry/Immunofluorescence 1:50-1:100, Immunoprecipitation, Dot Blot, Electron Microscopy, Flow (Intracellular)
- **Application Notes**: Use in Electron Microscopy reported in scientific literature (PMID 16735575). Use in Dot blot reported in scientific literature (PMID 14561735). Use in functional, ELISA, and immunoprecipitation reported in multiple pieces scientific literature.

### Images

Flow Cytometry: CD63 Antibody (H5C6) [NBP2-42225] - An intracellular stain was performed on SK-MEL-28 cells with CD63 Antibody (H5C6) NBP2-42225AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 μg/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.
Western Blot: CD63 Antibody (H5C6) [NBP2-42225] - Western blots with and without reducing conditions. The same samples and sample volumes were used for both. All procedure was performed parallely for both conditions. L- ladder +- exosomes. Image visualized with HRP linked to secondary antibody. This image was submitted via customer Review.

Immunocytochemistry/Immunofluorescence: CD63 Antibody (H5C6) [NBP2-42225] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.05% Triton-X100. The cells were incubated with anti-CD63 [H5C6] conjugated to Alexa Fluor 488 [NBP2-42225AF488] at 10ug/ml for 1 hour at room temperature. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.

Flow Cytometry: CD63 Antibody (H5C6) [NBP2-42225] - An intracellular stain was performed on HeLa cells with CD63 Antibody (H5C6) NBP2-42225APC (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Allophycocyanin.

Western Blot: CD63 Antibody (H5C6) [NBP2-42225] - THP1 whole cell protein was separated by SDS-PAGE on a 12% gel and transferred to PVDF membrane. The membrane was probed with anti-CD63 antibody at 2 ug/ml and detected with an anti-mouse HRP secondary antibody using chemiluminescence.
Immunocytochemistry/Immunofluorescence: CD63 Antibody (H5C6) [NBP2-42225] - The CD63 (H5C6) antibody was tested in HeLa cells at a 1:50 dilution against Dylight 488 (Green). Actin and nuclei were counterstained against Phalloidin 568 (Red) and DAPI (Blue), respectively.

Immunocytochemistry/Immunofluorescence: CD63 Antibody (H5C6) [NBP2-42225] - HEK cells stained with CD63 antibody at a dilution of 1:50 followed by Donkey anti-mouse secondary antibody conjugated with Alexa Fluor 488 (1:500). Nuclei were stained with Hoechst 33342. Image from verified customer review.

Immunocytochemistry/Immunofluorescence: CD63 Antibody (H5C6) [NBP2-42225] - MDCK cells stained with CD63 antibody at a dilution of 1:50 followed by Donkey anti-mouse secondary antibody conjugated with Alexa Fluor 488 (1:500). Nuclei were stained with Hoechst 33342. Image from verified customer review.

Flow Cytometry: CD63 Antibody (H5C6) [NBP2-42225] - Human peripheral blood cells were stained (2 x 10^6 cells/ml) using the anti-CD63 antibody (blue) at a dilution of 1:1000. Signal was detected using a Gt x Ms Dylight 488 Secondary and gated to the monocyte/granulocyte cell populations. Isotype was Mouse IgG1 kappa (orange). Data collected on BD FACS Calibur flow cytometer.
Flow Cytometry: CD63 Antibody (H5C6) [NBP2-42225] - A431 cells were stained (1 x10⁶ cells/ml) using the anti-CD63 antibody at a 1:1000 dilution (blue). Signal was detected with Gt x Ms Dylight 488 secondary. Isotype shown in orange.

Flow (Intracellular): CD63 Antibody (H5C6) [NBP2-42225] - An intracellular stain was performed on HepG2 cells with CD63 Antibody (H5C6) NBP2-42225AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 10 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.
<table>
<thead>
<tr>
<th>Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bilawchuk LM, Griffiths CD, Jensen LD et al. The Susceptibilities of Respiratory Syncytial Virus to Nucleolin Receptor Blocking and Antibody Neutralization are Dependent upon the Method of Virus Purification Viruses 2017 Aug 03 [PMID: 28771197] (WB, Human)</td>
</tr>
</tbody>
</table>

Details:
CD63 antibody (clone H5C6) was used for ICC-IF staining of primary NPCD/Niemann-Pick type C-1 deficient and normal fibroblasts that were infected with NL4.3-VSV-G-pseudotyped virus for 96 hours. The immunoassay involved fixation of cells in 2% paraformaldehyde for 20 minutes, blocking with 5% normal goat serum containing 1% BSA, permeabilization with 0.1% saponin, use of primary antibody at 10 μg/ml concentration with 1 hour incubation, detection with Texas Red-conjugated goat anti-mouse secondary antibody (FIG 5).


Details:
CD63 antibody (clone H5C6) was used for FLOW application on human peripheral blood monocytes which were isolated from peripheral whole blood of healthy volunteers and the assay implicated - culture of adherent monocytes in the presence or absence of 10 μg/ml of Con A lectin, harvesting followed by washing with B/B/N buffer (balanced salt solution/BSS with 0.2% BSA and 0.1% azide), incubation of 2 × 10^5 cells with 10μg of primary antibody or IgG1 isotype control on ice for 45 minutes, 2X washing with B/B/N buffer followed by 30 minutes incubation with FITC-labelled anti-mouse immunoglobulin , washing and analysis on flow cytometer (data not shown). The antibody was also used in functional/in-vitro assay for analysing the effects of anti-tetraspanin immunoglobulins on concanavalin A (Con A) induced monocyte fusion / multinucleated giant cells formation (Figure 2 and Figure 3), and for WB analysis of tetraspanin recombinant protein- extracellular domain-GST (Figure S1).
Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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<th>Code</th>
<th>Description</th>
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<tr>
<td>HAF007</td>
<td>Goat anti-Mouse IgG Secondary Antibody [HRP (Horseradish Peroxidase)]</td>
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<td>NB720-B</td>
<td>Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]</td>
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<tr>
<td>NBP1-43319-0.5mg</td>
<td>Mouse, Human IgG1 Kappa Light Chain Isotype Control (P3.6.2.8.1)</td>
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<tr>
<td>NBP2-42225AF488</td>
<td>CD63 Antibody (H5C6) [Alexa Fluor® 488]</td>
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