

#55051 Store at -20°C

## CD63 (D4I1X) Rabbit mAb



**Cell Signaling**  
TECHNOLOGY®

**Orders:** 877-616-CELL (2355)  
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

**For Research Use Only. Not for Use in Diagnostic Procedures.**

|                               |                         |                                   |                                      |                               |                               |
|-------------------------------|-------------------------|-----------------------------------|--------------------------------------|-------------------------------|-------------------------------|
| <b>Applications:</b><br>IHC-P | <b>Reactivity:</b><br>H | <b>Sensitivity:</b><br>Endogenous | <b>Source/Isotype:</b><br>Rabbit IgG | <b>UniProt ID:</b><br>#P08962 | <b>Entrez-Gene Id:</b><br>967 |
|-------------------------------|-------------------------|-----------------------------------|--------------------------------------|-------------------------------|-------------------------------|

|                                  |   |                          |
|----------------------------------|---|--------------------------|
| <b>Product Usage Information</b> | <b>Application</b><br>Immunohistochemistry (Paraffin)   | <b>Dilution</b><br>1:400 |
| <b>Storage</b>                   | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.  |                          |
|                                  | For a carrier free (BSA and azide free) version of this product see product #43890.   |                          |
| <b>Specificity / Sensitivity</b> | CD63 (D4I1X) Rabbit mAb recognizes endogenous levels of total CD63 protein.   |                          |
| <b>Source / Purification</b>     | Monoclonal antibody is produced by immunizing animals with recombinant CD63 protein.  |                          |
| <b>Background</b>                | CD63 belongs to the tetraspanin family, which is characterized by four transmembrane domains, one short extracellular domain (ECL1), and one long extracellular domain (ECL2) (1-3). Tetraspanins interact with a variety of cell surface proteins and intracellular signaling molecules in specialized tetraspanin-enriched microdomains (TEMs) where they mediate a range of processes, including adhesion, motility, membrane organization, and signal transduction (3). CD63, like other tetraspanins, is enriched in exosomes (4). It is also a component of Weibel-Palade bodies found in endothelial cells (5). Research studies demonstrate several functions of CD63 in different cell types, including roles in mast cell degranulation, VEGF signaling in endothelial cells, recruitment of leukocytes to endothelial cells, and endosomal sorting during melanogenesis (6-9). |                          |
| <b>Background References</b>     | <ol style="list-style-type: none"> <li>Oren, R. et al. (1990) <i>Mol Cell Biol</i> 10, 4007-15.</li> <li>Levy, S. et al. (1991) <i>J Biol Chem</i> 266, 14597-602.</li> <li>Hemler, M.E. (2005) <i>Nat Rev Mol Cell Biol</i> 6, 801-11.</li> <li>Escola, J.M. et al. (1998) <i>J Biol Chem</i> 273, 20121-7.</li> <li>Vischer, U.M. and Wagner, D.D. (1993) <i>Blood</i> 82, 1184-91.</li> <li>Kraft, S. et al. (2013) <i>J Immunol</i> 191, 2871-8.</li> <li>Tugues, S. et al. (2013) <i>J Biol Chem</i> 288, 19060-71.</li> <li>Doyle, E.L. et al. (2011) <i>Blood</i> 118, 4265-73.</li> <li>van Niel, G. et al. (2011) <i>Dev Cell</i> 21, 708-21.</li> </ol>   |                          |

|                               |   |
|-------------------------------|---|
| <b>Species Reactivity</b>     | Species reactivity is determined by testing in at least one approved application (e.g., western blot).  |
| <b>Applications Key</b>       | <b>IHC-P:</b> Immunohistochemistry (Paraffin)   |
| <b>Cross-Reactivity Key</b>   | <b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected  |
| <b>Trademarks and Patents</b> | Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.<br>SignalStain is a trademark of Cell Signaling Technology, Inc.<br>All other trademarks are the property of their respective owners. Visit <a href="http://cellsignal.com/trademarks">cellsignal.com/trademarks</a> for more information.  |
| <b>Limited Uses</b>           | Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect. |

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.