SANTA CRUZ BIOTECHNOLOGY, INC.

normal mouse IgG_1: sc-3877

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Santa Cruz Biotechnology offers a wide variety of control immunoglobulin and control sera for a large selection of species, including mouse, rabbit, goat, chicken, rat, hamster, dog, guinea pig and sheep. Control immunoglobulin and immunoglobulin conjugates are useful negative controls. Normal sera is offered to be used as blocking reagents. Santa Cruz Biotechnology offers affinity purified normal immunoglobulins and immunoglobulin conjugates for use as negative controls in applications including flow cytometry, immunohistochemistry, immunofluorescence, Western Blotting and immunoprecipitation. Agarose (AC) conjugated IgGs are provided for immunoprecipitation, horseradish peroxidase (HRP) conjugates are provided for Western blotting and immunohistochemistry, as well as biotin (B) conjugates for immunohistochemistry. A broad range of fluorescent conjugated controls are also available for use in flow cytometry and immunofluorescence applications. Most control immunoglobulins are available as unconjugated controls or as FITC (fluorescein isothiocyanate), PE (phycoerythrin), PE-Cy5 (phycoerythrin-Cy5), PE-Cy7 (phycoerythrin-Cy7), APC (allophycocyanin) and APC-Cy7 (allophycocyanin-Cy7) conjugates. Additional conjugates include Alexa Fluor® 488, Alexa Fluor® 647, Alexa Fluor® 405, PerCP (peridinin chlorophyll protein complex) and PerCP-Cy5.5 (peridinin chlorophyll protein complex-Cy 5.5). Isotype specific control immunoglobulins include classes such as mouse IgG_1,IgG_{2a}, IgG_{2b}, IgG_3, IgM and IgA, rat IgG_1, IgG_{2a}, IgG_{2b} and IgM, Armenian hamster IgG, and both goat and rabbit IgG.

SOURCE

normal mouse IgG_1 is an affinity purified, unconjuated conjugated isotype control immunoglobulin from mouse.

PRODUCT

Each vial contains 200 µg in 1.0 ml of PBS, 0.1% gelatin and 0.1% sodium azide.

APPLICATIONS

normal mouse IgG_1 is recommended for use as an isotype control immunoglobulin in place of a target specific primary antibody of the same isotype (mouse IgG_1) by flow cytometry. To be used at an assay dependent dilution.

RECOMMENDED SUPPORT PRODUCTS

- FCM Lysing solution: sc-3621
- FCM Fixation Buffer: sc-3622
- FCM Permeabilization Buffer: sc-3623
- FCM Wash Buffer: sc-3624
- Intracellular FCM System: sc-45063

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA

SELECT PRODUCT CITATIONS

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4. Moura, D.F., et al. 2012. CD163 favors *Mycobacterium leprae* survival and persistence by promoting anti-inflammatory pathways in lepromatous macrophages. Eur. J. Immunol. 42: 2925-2936.
5. Muehleisen, B., et al. 2012. Distinct innate immune gene expression profiles in non-melanoma skin cancer of immunocompetent and immunosuppressed patients. PLoS ONE 7: e40754.
6. Issa, M.E., et al. 2012. Chemokine-like receptor 1 regulates skeletal muscle cell myogenesis. Am. J. Physiol., Cell Physiol. 302: C1621-C1631.
7. Luo, J., et al. 2014. PI3K is involved in β1 integrin clustering by PSGL-1 and promotes β1 integrin-mediated Jurkat cell adhesion to fibronectin. Mol. Cell. Biochem. 385: 287-295.
8. Capuano, C., et al. 2015. Anti-CD20 therapy acts via FcγRIIIA to diminish responsiveness of human natural killer cells. Cancer Res. 75: 4097-4108.
9. Xie, Z., et al. 2015. MMSET regulates expression of IRF4 in t(4;14) myeloma and its silencing potentiates the effect of bortezomib. Leukemia 29: 2347-2354.
10. Le, Q.T., et al. 2015. Plasma membrane tetraspanin CD81 complexes with proprotein convertase subtilisin/kexin type 9 (PCSK9) and low density lipoprotein receptor (LDLR), and its levels are reduced by PCSK9. J. Biol. Chem. 290: 23385-23400.
11. Xu, T., et al. 2015. Lipid raft-associated β-adducin is required for PSGL-1-mediated neutrophil rolling on P-selectin. J. Leukoc. Biol. 97: 297-306.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.