SANTA CRUZ BIOTECHNOLOGY, INC.

normal mouse IgG_1-FITC: sc-2855

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, canine, 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; and Biotin (B) conjugates are provided 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-FITC is an affinity purified, FITC (fluorescein) conjugated isotype control immunoglobulin from mouse.

PRODUCT

Each vial contains 200 µg mouse IgG_1 in 1.0 ml PBS containing 1% stabilizer protein and 0.02% sodium azide.

APPLICATIONS

normal mouse IgG_1-FITC 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 immunofluorescence, immunohistochemical staining (including paraffin-embedded sections) and flow cytometry. To be used at an assay dependent dilution.

STORAGE

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

PROTOCOLS

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

RECOMMENDED SUPPORT PRODUCTS

- CrystalCruz™ Cover Glasses, 22 x 50 mm: sc-24975
- PBS, powder: sc-24947
- Formaldehyde: sc-203049
- Hydrogen Peroxide: sc-203336
- Organo/Limonene Mount: sc-45087
- UltraCruz® Mounting Medium: sc-24941
- ImmunoHistoMount: sc-45086
- Immuno In Situ Mount: sc-45088
- Paraffin: sc-286633
- Xylenes: sc-237422
- Hematoxylin: sc-24973
- 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

SELECT PRODUCT CITATIONS

1. Lamkhioued, B., et al. 2003. The CCR3 receptor is involved in eosinophil differentiation and is up-regulated by Th2 cytokines in $CD34^+$ progenitor cells. J. Immunol. 170: 537-547.
2. Zhou, J.X., et al. 2004. Enrichment and identification of human "fetal" epidermal stem cells. Hum. Reprod. 19: 968-974.
3. Hietaranta, A., et al. 2004. Proinflammatory effects of pancreatic elastase are mediated through TLR4 and NFκB. Biochem. Biophys. Res. Commun. 323: 192-196.
4. Ortega, A., et al. 2007. Effect of parathyroid-hormone-related protein on human platelet activation. Clin. Sci. 113: 319-327.
5. Wang, Z., et al. 2012. Dihydroartemisinin induces autophagy and inhibits the growth of iron-loaded human myeloid leukemia K562 cells via ROS toxicity. FEBS Open Bio. 2: 103-112.
6. Ochi, K., et al. 2014. Multicolor staining of globin subtypes reveals impaired globin switching during erythropoiesis in human pluripotent stem cells. Stem Cells Transl. Med. 3: 792-800.
7. Sriraman, SK., et al. 2016. Enhanced cytotoxicity of folic acid-targeted liposomes co-loaded with C6 ceramide and doxorubicin: *In vitro* evaluation on HeLa, A2780-ADR, and H69-AR cells. Mol. Pharm. 13: 428-437.
8. Zou, W., et al. 2017. The reversal of multidrug resistance in ovarian carcinoma cells by co-application of tariquidar and paclitaxel in transferrin-targeted polymeric micelles. J. Drug Target. 25: 225-234.

RESEARCH USE

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