SANTA CRUZ BIOTECHNOLOGY, INC.

normal rat IgG: sc-2026

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 rat IgG is an affinity purified, unconjugated isotype control immunoglobulin from rat.

PRODUCT

Each vial contains 200 µg rat IgG in 0.5 ml PBS with 0.1% sodium azide and 1% gelatin.

APPLICATIONS

normal rat IgG is recommended for use as an isotype control immunoglobulin in place of a target specific primary antibody of the same isotype (rat IgG) by Western Blotting (starting dilution: 1:5000, dilution range: 1:5000-1:10000), immunofluorescence staining (starting dilution: 1:100, dilution range: 1:100-1:400) and immunohistochemical staining (starting dilution: 1:100, dilution range: 1:100-1:400). 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.

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.

RECOMMENDED SUPPORT PRODUCTS

A. TISSUE CULTURE CELLS

- PBS, powder: sc-24947
- Hydrogen Peroxide: sc-203336

B. FROZEN TISSUE SECTIONS

- Organo/Limonene Mount: sc-45087
- UltraCruzTM Mounting Medium: sc-24941
- ImmunoHistoMount: sc-45086
- Immuno In Situ Mount: sc-45088

C. FORMALIN-FIXED, PARAFFIN-EMBEDDED TISSUE SECTIONS

- Xylenes: sc-237422
- Hematoxylin: sc-24973

D. WESTERN BLOTTING

- 10X liquid PBS: sc-24946
- RIPA Lysis Buffer System: sc-24948
- Phenylmethylsulfonyl Fluoride (PMSF): sc-3597
- Electrophoresis Sample Buffer, 2X: sc-24945
- Phosphatase Inhibitor Cocktail A/B: sc-45044/5
- Complete™ Protease Inhibitor Cocktail Tablet: sc-29130
- TBS Blotto A: sc-2333
- TBS Blotto B: sc-2335
- Western Blotting Luminol Reagent: sc-2048

E. IMMUNOPRECIPITATION

- Protein A-Agarose: sc-2001
- Protein G PLUS-Agarose: sc-2002
- Protein A/G PLUS-Agarose: sc-2003
- Protein L-Agarose: sc-2336

SELECT PRODUCT CITATIONS

1. Lynch, J., et al. 2003. Cdx1 inhibits the proliferation of human colon cancer cells by reducing cyclin D1 gene expression. Oncogene 22: 6395-6407.
2. Li, B., et al. 2011. Increased hedgehog signaling in postnatal kidney results in aberrant activation of nephron developmental programs. Hum. Mol. Genet. 20: 4155-4166.
3. Ruthala, K., et al. 2011. Hoxc8 downregulates Mgl1 tumor suppressor gene expression and reduces its concomitant function on cell adhesion. Mol. Cells 32: 273-279.
4. Fernández-Alvarez, A., et al. 2011. Human SREBP1c expression in liver is directly regulated by peroxisome proliferator-activated receptor α (PPARα). J. Biol. Chem. 286: 21466-21477.
5. DeStefano, G.M., et al. 2013. Position effect on FGF13 associated with X-linked congenital generalized hypertrichosis. Proc. Nat. Acad. Sci. USA 110: 7790-7795.