SANTA CRUZ BIOTECHNOLOGY, INC.

normal mouse serum: sc-45051

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 normal mouse serum is provided as neat serum from a non-immunized animal.

PRODUCT

Each vial contains 1 ml normal mouse serum containing < 0.01% thimerosal.

APPLICATIONS

normal normal mouse serum is recommended for use as a blocking reagent for immunofluorescence, immunohistochemistry and immunocytochemistry. To be used at an assay dependent dilution. In research applications, the species of the normal serum should match the host species of the secondary antibody.

STORAGE

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

RECOMMENDED SUPPORT PRODUCTS

A. TISSUE CULTURE CELLS

- CrystalCruz® Cover Glasses, 22 x 50 mm, precleaned: sc-24975
- PBS (Phosphate Buffered Saline), powder, 1 packet: sc-24947
- Formaldehyde, 37% formaldehyde solution, 25 ml: sc-203049
- Hydrogen Peroxide, 30% solution, 100 ml: sc-203336

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

RECOMMENDED SUPPORT PRODUCTS *CONT.*

B. FROZEN TISSUE SECTIONS

- Organo/Limonene Mount, non-toxic Permount alternative, 100 ml: sc-45087
- UltraCruz® Mounting Medium, aqueous-based, 10 ml: sc-24941
- ImmunoHistoMount, aqueous-based mounting medium, 30 ml: sc-45086
- Immuno In Situ Mount, for use with *in situ* hybridization, 30 ml: sc-45088

C. FORMALIN-FIXED, PARAFFIN-EMBEDDED TISSUE SECTIONS

- Paraffin, for the preparation of tissue samples for staining, 500 g: sc-286633
- Xylenes, mixed isomers with ethylbenzene, 500 ml: sc-237422
- Hematoxylin, Gill's Formulation #2; nuclear counter stain, 100 ml: sc-24973

SELECT PRODUCT CITATIONS

1. Nozell, S. and Laver, T. 2006. Mechanism of IFN-β-mediated inhibition of IL-8 gene expression in astroglioma cells. J. Immunol. 177: 822-830.
2. Horke, S., et al. 2007. Paraoxonase-2 reduces oxidative stress in vascular cells and decreases endoplasmic reticulum stress-induced caspase activation. Circulation 115: 2055-2064.
3. Efendiev, R., et al. 2008. G-protein-coupled receptor-mediated traffic of Na,K-ATPase to the plasma membrane requires the binding of adaptor protein 1 to a Tyr-255-based sequence in the α-subunit. J. Biol. Chem. 283: 17561-17567.
4. Karpurapu, M., et al. 2008. NFATc1 targets cyclin A in the regulation of vascular smooth muscle cell multiplication during restenosis. J. Biol. Chem. 283: 26577-26590.
5. Toyoda, E., et al. 2005. Analysis of E-, N-cadherin, α-, β-, and γ-catenin expression in human pancreatic carcinoma cell lines. Pancreas 30: 168-173.
6. Yang, X., et al. 2010. Appearance of the pituitary factor Pit-1 increases chromatin remodeling at hypersensitive site III in the human GH locus. J. Mol. Endocrinol. 45: 19-32.
7. Guido C., et al. 2011. Human sperm physiology: estrogen receptor α (ERα) and estrogen receptor β (ERβ) influence sperm metabolism and may be involved in the pathophysiology of varicocele-associated male infertility. J Cell Physiol. 226: 3403-3412.
8. Kundumani-Sridharan, V., et al. 2012. Novel interactions between NFATc1 (nuclear factor of activated T cells c1) and STAT-3 (signal transducer and activator of transcription-3) mediate G protein-coupled receptor agonist, thrombin-induced biphasic expression of cyclin D1, with first phase influencing cell migration and second phase directing cell proliferation. J. Biol. Chem. 287: 22463-22482.
9. Kotla, S., et al. 2014. ROS-dependent Syk and Pyk2-mediated STAT1 activation is required for 15(S)-hydroxyeicosatetraenoic acid-induced CD36 expression and foam cell formation. Free Radicals in Biology and Medicine 76: 147-62.

RESEARCH USE

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