

normal goat serum: sc-2043

BACKGROUND

Santa Cruz Biotechnology offers a wide variety of control immunoglobulin and control sera for a large selection of species, including goat, donkey, rabbit, mouse, rat, bovine, cat, chicken, dog, guinea pig, Syrian hamster, horse, swine, turkey and sheep. Our normal serum contains multiple classes of immunoglobulins and serum proteins from non-immunized animals. Normal serum is provided for use as a blocking reagent to prevent non-specific interactions of tissues or cells in immunohistochemistry, immunocytochemistry and immunofluorescence studies. When used as an antibody diluent in these applications, normal serum provides a ideal, native-like environment. The serum used should be of the same species as that in which the secondary antibody was raised. For example, if using goat anti-rabbit IgG-HRP secondary antibody in a research application, select the normal goat serum as the blocking reagent. Control immunoglobulin and immunoglobulin conjugates are useful negative controls. Santa Cruz Biotechnology offers affinity purified normal immunoglobulins and immunoglobulin conjugates for use as negative controls in applications including flow cytometry, immunohistochemistry and immunofluorescence. Isotype specific control immunoglobulins include classes such as mouse IgG₁, IgG_{2a}, IgG_{2b}, IgG₃, IgM and IgA, rat IgG₁, IgG_{2a}, IgG_{2b} and IgM, Armenian hamster IgG, and both goat and rabbit IgG. 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).

SOURCE

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

PRODUCT

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

APPLICATIONS

Normal normal goat 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.

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

- CrystalCruz[®] Cover Glasses, 22 x 50 mm, precleaned: sc-24975
- CrystalCruz[®] Micro Slides 75 x 25 mm; 72 frosted sides: sc-24976
- 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

B. FROZEN TISSUE SECTIONS

- Organo/Limonene Mount, non-toxic Permout 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

- Cloutier, M.M., et al. 2004. Electrophysiological properties of the airway. *Am. J. Pathol.* 164: 1849-1856.
- Frenckner, B., et al. 2005. Insulinlike growth factor I gene expression is increased in the fetal lung after tracheal ligation. *J. Pediatr. Surg.* 40: 457-463.
- Uhlmann, T. and Boeing, S. 2007. The VP16 activation domain establishes an active mediator lacking CDK8 *in vivo*. *J. Biol. Chem.* 282: 2163-2173.
- Marshall, A.G., et al. 2009. Effect of gestational ethanol exposure on parvalbumin and calretinin expressing hippocampal neurons in a chick model of fetal alcohol syndrome. *Alcohol.* 43: 147-161.
- Arias-Alvarez, M., et al. 2010. Influence of leptin on *in vitro* maturation and steroidogenic secretion of cumulus-oocyte complexes through JAK2/STAT3 and MEK 1/2 pathways in the rabbit model. *Reproduction* 139: 523-532.
- Hallersund, P., et al. 2011. The expression of renin-angiotensin system components in the human gastric mucosa. *J. Renin Angiotensin Aldosterone Syst.* 12: 54-64.
- Zarnescu, O., et al. 2011. Co-localization of PCNA, VCAM-1 and caspase-3 with nestin in xenografts derived from human anaplastic astrocytoma and glioblastoma multiforme tumor spheres. *Micron.* 42: 793-800.
- Paschou M and Doxakis E. 2012. Neurofibromin 1 Is a miRNA target in Neurons. *PLoS ONE* 7: e46773.

RESEARCH USE

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