

normal rabbit IgG-HRP: sc-2749

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 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.

SOURCE

normal rabbit IgG-HRP is an affinity purified, HRP (horseradish peroxidase) conjugated isotype control immunoglobulin from rabbit.

PRODUCT

Each vial contains 200 µg rabbit IgG in PBS containing 40% glycerol, 1% protein stabilizer and < 0.01% thimerosal.

APPLICATIONS

normal rabbit IgG-HRP is recommended for use as an isotype control immunoglobulin in place of a target specific primary antibody of the same isotype (rabbit IgG) by Western Blotting and immunohistochemical staining. 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 or our catalog for detailed protocols and support products.

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

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

B. FROZEN TISSUE SECTIONS

- Organo/Limonene Mount, non-toxic Permunt 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

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

SELECT PRODUCT CITATIONS

1. Krones, A. 2001. Cross-talk between the signals hypoxia and glucose at the glucose response element of the L-type pyruvate kinase gene. *Endocrinology* 142: 2707-2718.
2. Fakhzadeh, L., et al. 2004. Ozone-induced production of nitric oxide and TNF-α and tissue injury are dependent on NF-κB p50. *Am. J. Physiol. Lung Cell Mol. Physiol.* 287: L279-L285.
3. Hashimoto, K., et al. 2007. Geranylgeranylacetone inhibits ovarian cancer progression *in vitro* and *in vivo*. *Biochem. Biophys. Res. Commun.* 356: 72-77.
4. Tong, K.M., et al. 2011. Adiponectin increases MMP-3 expression in human chondrocytes through adipor1 signaling pathway. *J. Cell. Biochem.* 112: 1431-1440.
5. Choi, J.K., et al. 2011. Granulocyte macrophage-colony stimulating factor shows anti-apoptotic activity in neural progenitor cells via JAK/STAT5-Bcl-2 pathway. *Apoptosis* 16: 127-134.

RESEARCH USE

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