

goat anti-rat IgG-HRP: sc-2006

BACKGROUND

Santa Cruz Biotechnology's secondary antibodies are available conjugated to either an enzyme, biotin or fluorophore for use in a variety of antibody-based applications including Western Blot, immunostaining, flow cytometry and ELISA. Secondary antibodies are commonly affinity purified against immobilized whole IgG isotypes, including IgG₁, IgG_{2a}, IgG_{2b}, IgG₃ and IgG₄. Santa Cruz Biotechnology offers a wide selection of secondary antibodies, which are used in conjunction with our Cruz Marker™ molecular weight standards. We also provide specialized secondaries, such as pre-adsorbed secondary antibodies, which are pre-adsorbed with human IgG and mouse IgG for immunoglobulin-rich tissues and cells, F(ab')₂ fragment secondary antibodies that reduce non-specific secondary antibody binding to Fc receptors on the cell surface, and isotype-specific secondary antibodies against IgM, IgA and IgY.

SOURCE

goat anti-rat IgG-HRP is an affinity purified secondary antibody raised in goat against rat IgG and conjugated to HRP (horseradish peroxidase).

PRODUCT

Each vial contains 200 µg IgG in 0.5 ml of 1X PBS containing 40% glycerol.

APPLICATIONS

goat anti-rat IgG-HRP is recommended for detection of rat IgG by Western Blotting (starting dilution: 1:5000, dilution range 1:5000-1:10000; optimal dilution to be determined by titration).

RECOMMENDED SUPPORT PRODUCTS

- Western Blotting Luminol Reagent, for 2,000 cm² membrane area: sc-2048
- RIPA Lysis Buffer, 50 ml, cell lysis buffer with protease inhibitors: sc-24948
- Electrophoresis Sample Buffer, 2X, 25 ml, reducing buffer: sc-24945
- Complete™ Protease Inhibitor Cocktail Tablet, 20 tablets: sc-29130
- Running Buffer, 10X, 1 L, TRIS-Glycine WB running buffer, pH 8.3: sc-24949
- Towbin, with SDS, 10X, 1 L, WB transfer buffer pH 8.3: sc-24954
- Bovine Serum Albumin (BSA), 100 g, blocking/incubation agent: sc-2323
- TBS Blotto A, lyophilized powder in single-use bottle: sc-2333
- UltraCruz™ PVDF Transfer Membrane, 0.45 µm, 30 cm x 3 m roll: sc-3723
- UltraCruz™ Nitrocellulose Pure Transfer Membrane, 0.22 µm, 30 cm x 3 m roll: sc-3718
- UltraCruz™ Tissue Culture Dish, 100 mm polystyrene dish: sc-200286
- UltraCruz™ Cell Scrapers, 25 cm, sterile, 100 per case: sc-213229
- UltraCruz™ Electrophoresis Cell: sc-201625 : runs up to 10 or 15 sample by SDS – PAGE protein electrophoresis
- UltraCruz™ Autoradiography Film, Blue, 8 x 1, 100 sheets: sc-201697
- UltraCruz™ Gel Incubation Trays, 100 per pack: sc-201755 (blue), sc-201756 (green), sc-201757 (pink), sc-201758 (yellow), sc-201759 (orange)

RESEARCH USE

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

SELECT PRODUCT CITATIONS

1. Maher, J., et al. 1995. Evidence for cell-specific differences in transformation by N-, H- and K-ras. *Oncogene* 11: 1639-1647.
2. Tseng, P.H., et al. 2010. Different modes of ubiquitination of the adaptor TRAF3 selectively activate the expression of type I interferons and proinflammatory cytokines. *Nat. Immunol.* 11: 70-75.
3. Kapuria, V., et al. 2010. Deubiquitinase inhibition by small-molecule WP1130 triggers aggresome formation and tumor cell apoptosis. *Cancer Res.* 70: 9265-9276.
4. Omenetti, A., et al. 2010. Paracrine modulation of cholangiocyte serotonin synthesis orchestrates biliary remodeling in adults. *Am. J. Physiol. Gastrointest. Liver Physiol.* 300: G303-G315.
5. Copsel, S., et al. 2011. Multidrug resistance protein 4 (MRP4/ABCC4) regulates cAMP cellular levels and controls human leukemia cell proliferation and differentiation. *J. Biol. Chem.* 286: 6979-6988.
6. Donnellan, P.D., et al. 2011. Identification of a novel endoplasmic reticulum export motif within the eighth α -helical domain (α -H8) of the human prostacyclin receptor. *Biochim. Biophys. Acta* 1808: 1202-1218.
7. 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.
8. Yin, S.Y., et al. 2011. Interleukin-4 enhances trafficking and functional activities of GM-CSF-stimulated mouse myeloid-derived dendritic cells at late differentiation stage. *Exp. Cell Res.* 317: 2210-2221.
9. Brunner, S., et al. 2011. Transgenic Pm3 multilines of wheat show increased powdery mildew resistance in the field. *Plant Biotechnol. J.* 10: 398-409.
10. Gutiérrez-Escribano, P., et al. 2011. CDK-dependent phosphorylation of Mob2 is essential for hyphal development in *Candida albicans*. *Mol. Biol. Cell.* 22: 2458-2469.
11. Fini, M.A., et al. 2011. Contribution of xanthine oxidoreductase to mammary epithelial and breast cancer cell differentiation in part modulates inhibitor of differentiation-1. *Mol. Cancer Res.* 9: 1242-1254.
12. Breyer, J., et al. 2012. Inhibition of Rho kinases increases directional motility of microvascular endothelial cells. *Biochem. Pharmacol.* 83: 616-626.
13. Lamacchia, C., et al. 2012. Mice deficient in hepatocyte-specific IL-1Ra show delayed resolution of concanavalin A-induced hepatitis. *Eur. J. Immunol.* 42: 1294-1303.
14. Motwani, T., et al. 2012. Sir3 and epigenetic inheritance of silent chromatin in *Saccharomyces cerevisiae*. *Mol. Cell. Biol.* 32: 2784-2793.

STORAGE

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