SANTA CRUZ BIOTECHNOLOGY, INC.

goat anti-rat IgG-HRP: sc-2032

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. We offer Cruz Marker™ compatible secondary antibodies, which are used in conjunction with Santa Cruz Biotechnology's Cruz Marker™ molecular weight standards. Cruz Marker™ compatible secondary antibodies recognize an epitope common to each of the Cruz Marker™ molecular weight standards and are provided as horseradish peroxidase (HRP) and alkaline phosphatase (AP) conjugated secondary antibodies for detection of mouse, goat, rabbit and rat primary antibodies. Pre-adsorbed HRP and AP conjugated Cruz Marker™ compatible secondary antibodies are also available and are recommended for use with immunoglobulin-rich samples.

SOURCE

goat anti-rat IgG-HRP is a CruzMarker™ compatible, 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 and 1% BSA.

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; starting dilution to be determined by titration).

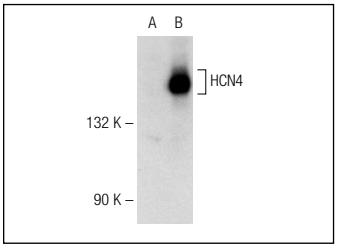
RECOMMENDED SUPPORT PRODUCTS

- UltraCruz™ Tissue Culture Dish, 100 mm polystyrene dish: sc-200286
- UltraCruz™ Cell Scrapers, 25 cm, sterile, 100 per case: sc-213229
- RIPA Lysis Buffer, 50 ml, cell lysis buffer with protease inhibitors: sc-24948
- Complete™ Protease Inhibitor Cocktail Tablet, 20 tablets: sc-29130
- Electrophoresis Sample Buffer, 2X, 25 ml, reducing buffer: sc-24945
- 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
- Cruz Blot-A: sc-3901 (Western blotting membrane with human cell line extracts from 10 different cell types)
- 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
- Western Blotting Luminol Reagent, for 2,000 cm^2 membrane area: sc-2048
- 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
- Cruz Marker™ Molecular Weight Standards, for 50 gels: sc-2035

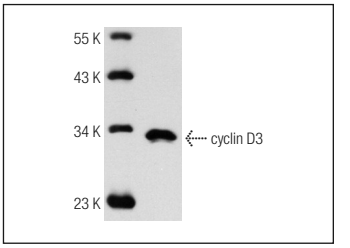
STORAGE

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

DATA



goat anti-rat IgG-HRP: sc-2032. Western blot analysis of HCN4 expression in non-transfected: sc-117752 (**A**) and human HCN4 transfected: sc-173585 (**B**) 293T whole cell lysates. Antibody tested: HCN4 (SHG 1E5): sc-58622.



goat anti-rat IgG-HRP: sc-2032. Western blot analysis of cyclin D3 expression in PMA treated Jurkat nuclear extract. Antibody tested: cyclin D3 (18B6-10): sc-453.

SELECT PRODUCT CITATIONS

1. Chuen, C.K., et al. 2004. Interleukin-1β up-regulates the expression of thrombopoietin and transcription factors c-Jun, c-Fos, GATA-1, and NF-E2 in megakaryocytic cells. J. Lab. Clin. Med. 143: 75-88.
2. Li, B., et al. 2006. Cul4A targets p27 for degradation and regulates proliferation, cell cycle exit, and differentiation during erythropoiesis. Blood 10: 4291-4299.
3. Trainor, C.D., et al. 2009. GATA-1 associates with and inhibits p53. Blood 114: 165-173.
4. Wang, G., et al. 2010. Cellular prion protein released on exosomes from macrophages binds to Hsp70. Acta Biochim. Biophys. Sin. 42: 345-350.
5. Xu, Y.Z., et al. 2010. Regulation of cytokine signaling and T-cell recruitment in the aging mouse brain in response to central inflammatory challenge. Brain Behav. Immun. 24: 138-152.
6. Hannigan, A., et al. 2010. Evaluation of LMP1 of Epstein-Barr virus as a therapeutic target by its inhibition. Mol. Cancer 9: 184.
7. Krall, P., et al. 2010. Podocyte-specific overexpression of wild type or mutant trpc6 in mice is sufficient to cause glomerular disease. PLoS ONE 5: e12859.
8. Chu, S., et al. 2011. The expression of Foxp3 and ROR γ t in lung tissues from normal smokers and chronic obstructive pulmonary disease patients. Int. Immunopharmacol. 11: 1780-1788.
9. Menon, M.B., et al. 2011. SB202190-induced cell type-specific vacuole formation and defective autophagy do not depend on p38 MAP kinase inhibition. PLoS ONE 6: e23054.

RESEARCH USE

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