goat anti-rat IgG-AP: sc-2021



The Power to Question

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 $\lg G$ isotypes, including $\lg G_1$, $\lg G_{2a}$, $\lg G_{2b}$, $\lg G_3$ and $\lg G_4$. 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 $\lg G$ and mouse $\lg G$ for immunoglobulin-rich tissues and cells, $\digamma G$ and so the cells surface, and isotype-specific secondary antibodies against $\lg M$, $\lg A$ and $\lg Y$.

SOURCE

goat anti-rat IgG-AP is an affinity purified secondary antibody raised in goat against rat IgG and conjugated to AP (alkaline phosphatase).

PRODUCT

Each vial contains 200 μ g IgG in 0.5 ml of PBS containing 50% glycerol, 1 mM zinc chloride, 0.02% sodium azide and 1 mM magnesium chloride.

APPLICATIONS

goat anti-rat IgG-AP 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
- UltraCruzTM 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
- UltraCruzTM Gel Incubation Trays, 100 per pack: sc-201755 (blue), sc-201756 (green), sc-201757 (pink), sc-201758 (yellow), sc-201759 (orange)

SELECT PRODUCT CITATIONS

- 1. Li, X.K., et al. 2001. Fulminant hepatitis by Fas-ligand expression in MRL-lpr/lpr mice grafted with Fas-positive livers and wild-type mice with Fas-mutant livers. Transplantation 71: 503-508.
- 2. Baharav, E., et al. 2004. *Lactobacillus GG* bacteria ameliorate arthritis in Lewis rats. J. Nutr. 134: 1964-1969.
- 3. Rapaka, R.R. and Goetzman, E.S. 2007. Enhanced defense against *Pneumocystis carinii* mediated by a novel Dectin-1 receptor Fc fusion protein. J. Immunol. 178: 3702-3712.
- Pinheiro, P.S., et al. 2007. GluR7 is an essential subunit of presynaptic kainate autoreceptors at hippocampal mossy fiber synapses. Proc. Natl. Acad. Sci. USA 104: 12181-12186.
- Cao, C., et al. 2009. Gα_{i1} and Gα_{i3} are required for epidermal growth factormediated activation of the Akt-mTORC1 pathway. Sci. Signal. 2: ra17.
- Dmitrieff, E.F., et al. 2011. Chronic hyperoxia alters the expression of neurotrophic factors in the carotid body of neonatal rats. Respir. Physiol. Neurobiol. 175: 220-227.
- Zhang, H.J., et al. 2012. ATPA induced GluR5-containing kainite receptor Snitrosylation via activation of GluR5-Gq-PLC-IP(3)R pathway and signalling module GluR5-PSD-95-nNOS. Int. J. Biochem. Cell Biol. 44: 2261-2271.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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