

# goat anti-mouse IgG-HRP: sc-2005

## 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 IgG<sub>1</sub>, IgG<sub>2a</sub>, IgG<sub>2b</sub>, IgG<sub>3</sub> and IgG<sub>4</sub>. 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')<sub>2</sub> 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-mouse IgG-HRP is an affinity purified secondary antibody raised in goat against mouse IgG and conjugated to HRP (horseradish peroxidase).

## PRODUCT

Each vial contains 200 µg goat IgG in 0.5 ml of PBS containing 40% glycerol, 1% stabilizer protein and < 0.01% thimerosal.

## APPLICATIONS

goat anti-mouse IgG-HRP is recommended for detection of mouse IgG by Western Blotting (starting dilution: 1:5000, dilution range: 1:5000-1:10000) and ELISA (starting dilution: 1:500, dilution range: 1:250-1:1000). Optimal dilution to be determined by titration.

## RECOMMENDED SUPPORT PRODUCTS

- Western Blotting Luminol Reagent, for 2,000 cm<sup>2</sup> 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)

## SELECT PRODUCT CITATIONS

- Yamanashi, Y. and Baltimore, D. 1997. Identification of the Abl- and rasGAP-associated 62 kDa protein as a docking protein. *Dok. Cell* 88: 205-211.
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- Goh, W.I., et al. 2012. mDia1 and WAVE2 proteins interact directly with IRSp53 in filopodia and are involved in filopodium formation. *J. Biol. Chem.* 287: 4702-4714.
- Rocchiccioli, S., et al. 2012. Proteomics changes in adhesion molecules: a driving force for vascular smooth muscle cell phenotypic switch. *Mol. Biosyst.* 8: 1052-1059.
- Motwani, T., et al. 2012. Sir3 and epigenetic inheritance of silent chromatin in *Saccharomyces cerevisiae*. *Mol. Cell. Biol.* 32: 2784-2793.
- Li, X.W., et al. 2012. Inhibitory effect of calcitonin gene-related peptide on hypoxia-induced rat pulmonary artery smooth muscle cells proliferation: role of ERK1/2 and p27. *Eur. J. Pharmacol.* 679: 117-126.
- Marley, K., et al. 2012. Phosphotyrosine enrichment identifies focal adhesion kinase and other tyrosine kinases for targeting in canine hemangiosarcoma. *Vet. Comp. Oncol.* 10: 214-222.
- Ali, I., et al. 2012. Cadmium-induced effects on cellular signaling pathways in the liver of transgenic estrogen reporter mice. *Toxicol. Sci.* 127: 66-75.
- Cecarini, V., et al. 2012. Crosstalk between the ubiquitin-proteasome system and autophagy in a human cellular model of Alzheimer's disease. *Biochim. Biophys. Acta* 1822: 1741-1751.
- Bensellam, M., et al. 2012. Glucose-induced O<sub>2</sub> consumption activates hypoxia inducible factors 1 and 2 in rat Insulin-secreting pancreatic β-cells. *PLoS ONE* 7: e29807.
- Diez, H., et al. 2012. Specific roles of Akt iso forms in apoptosis and axon growth regulation in neurons. *PLoS ONE* 7: e32715.
- Hsu, Y.Y., et al. 2012. Triptolide increases SMN transcript and protein levels in human SMA fibroblasts and improves survival in SMA-like mice. *Br. J. Pharmacol.* 166: 1114-1126.

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment.

## RESEARCH USE

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

See **m-IgGκ BP-HRP** (mouse IgGκ binding protein-HRP): **sc-516102**, our highly recommended recombinant alternative to conventional secondary anti-mouse IgG HRP reagents.