



# goat anti-mouse IgG-PE: sc-3738

## 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 or against antibody fragments. Santa Cruz Biotechnology offers an extensive selection of secondary antibodies optimized for immunohistochemistry and flow cytometry, and are labeled with either biotin, FITC (fluorescein isothiocyanate), Texas Red®, TRITC (tetramethyl rhodamine iso-thiocyanate), PE (phycoerythrin), PerCP (peridinin chlorophyll protein complex) and PerCP-Cy5.5 (peridinin chlorophyll protein complex with cyanin-5.5). Immunohistochemistry and flow cytometry secondary antibodies are specific for commonly used primary antibody species, including goat, rabbit, mouse and rat.

## SOURCE

goat anti-mouse IgG-PE is a pre-adsorbed, affinity purified secondary antibody raised in goat against mouse IgG and conjugated to PE (phycoerythrin).

## PRODUCT

Each vial contains 200 µg goat IgG (pre-adsorbed with human IgG) in 0.5 ml of PBS containing 0.1% gelatin and 0.1% sodium azide.

## APPLICATIONS

goat anti-mouse IgG-PE is recommended for detection of mouse IgG by immunofluorescence staining (starting dilution: 1:100, dilution range: 1:100-1:400) and flow cytometry (0.5-1 µg per 1 x 10<sup>6</sup> cells) of immunoglobulin-rich tissues and cells.

## RECOMMENDED SECONDARY REAGENTS

### A. TISSUE CULTURE CELLS

- CrystalCruz™ Cover Glasses, 22 x 50 mm, precleaned: sc-24975
- CrystalCruz™ Micro Slides 75 x 25 mm; 72 frosted sides: sc-24976
- 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 alternative to Permount, 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

## RESEARCH USE

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

## SELECT PRODUCT CITATIONS

1. Trost, T.M., et al. 2005. Premature senescence is a primary fail-safe mechanism of ERBB2-driven tumorigenesis in breast carcinoma cells. *Cancer Res.* 65: 840-849.
2. Strozzyk, E., et al. 2006. Differential effects of NFκB on apoptosis induced by DNA-damaging agents: the type of DNA damage determines the final outcome. *Oncogene* 25: 6239-6251.
3. Paintlia, A.S. and Paintlia, M.K. 2006. IL-4-induced peroxisome proliferator-activated receptor γ activation inhibits NFκB *trans* activation in central nervous system (CNS) glial cells and protects oligodendrocyte progenitors under neuroinflammatory disease conditions: implication for CNS-demyelinating diseases. *J. Immunol.* 176: 4385-4398.
4. Katkov, I.I., et al. 2006. Cryopreservation by slow cooling with DMSO diminished production of Oct-4 pluripotency marker in human embryonic stem cells. *Cryobiology* 53: 194-205.
5. Ko, J.H., et al. 2006. A new hepatocytic isoform of PLZF lacking the BTB domain interacts with ATP7B, the Wilson disease protein, and positively regulates ERK signal transduction. *J. Cell. Biochem.* 99: 719-734.
6. Merlo, S., et al. 2007. Astrocyte-like cells as a main target for estrogen action during neuronal differentiation. *Mol. Cell. Neurosci.* 34: 562-570.
7. Nakamura, M., et al. 2008. Controlled delivery of T-box21 small interfering RNA ameliorates autoimmune alopecia (alopecia areata) in a C3H/HeJ mouse model. *Am. J. Pathol.* 172: 650-658.
8. Anastasiadou, E., et al. 2009. Epstein-Barr virus infection leads to partial phenotypic reversion of terminally differentiated malignant B cells. *Cancer Lett.* 284: 165-174.
9. Wang, L., et al. 2009. Characterization of stem cell attributes in human osteosarcoma cell lines. *Cancer Biol. Ther.* 8: 543-552.
10. Zhang, H., et al. 2010. Tectorigenin inhibits the *in vitro* proliferation and enhances miR-338\* expression of pulmonary fibroblasts in rats with idiopathic pulmonary fibrosis. *J. Ethnopharmacol.* 131: 165-173.
11. Di Lullo, G., et al. 2010. The combination of marker gene swapping and fluorescence-activated cell sorting improves the efficiency of recombinant modified vaccinia virus Ankara vaccine production for human use. *J. Virol. Methods* 163: 195-204.
12. García-Expósito, L., et al. 2011. HIV-1 requires Arf6-mediated membrane dynamics to efficiently enter and infect T lymphocytes. *Mol. Biol. Cell* 22: 1148-1166.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.

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