

goat anti-rat IgG-FITC: sc-2011

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-rat IgG-FITC is a pre-adsorbed, affinity purified secondary antibody raised in goat against rat IgG and conjugated to FITC (fluorescein isothiocyanate).

PRODUCT

Each vial contains 200 µg goat IgG (pre-adsorbed with mouse and human IgG) in 0.5 ml of either PBS containing 0.02% sodium azide (for IF), or PBS containing 0.1% gel and 0.1% sodium azide (for FCM).

APPLICATIONS

goat anti-rat IgG-FITC is recommended for detection of rat IgG by immunofluorescence staining (starting dilution: 1:100, dilution range: 1:100-1:400), immunohistochemical staining (starting dilution: 1:100, dilution range: 1:100-1:400) and flow cytometry (0.5-1 µg per 1 x 10⁶ cells).

RECOMMENDED SUPPORT PRODUCTS

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 Permout, 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

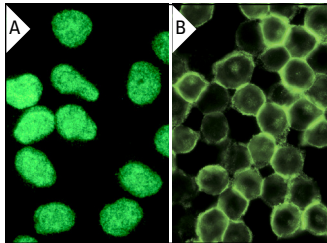
- Paraffin, for the preparation of tissue samples for staining, 500 g: sc-286633
- Xylenes, mixed isomers with ethylbenzene, 500 ml: sc-237422
- Hematoxylin, Gill's Formulation #2; nuclear counter stain, 100 ml: sc-24973

Texas Red® is a registered trademark of Molecular Probes (6/02).

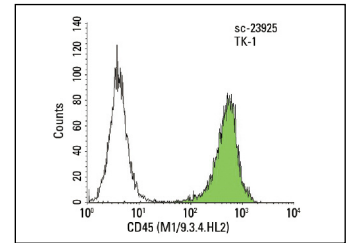
STORAGE

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-FITC: sc-2011. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization (A) and WEHI-3 cells showing membrane localization (B). Antibodies tested: ORC6 (3A4): sc-32735 (A) and PECAM-1 (MEC 13.3): sc-18916 (B).



goat anti-rat IgG-FITC: sc-2011. Indirect FCM analysis of TK-1 cells stained with CD45 (M1/9.3.4.HL2), followed by FITC-conjugated goat anti-rat IgG: sc-2011. Black line histogram represents the isotype control, normal rat IgG_{2a}: sc-3883. Antibody tested: CD45 (M1/9.3.4.HL2): sc-23925.

SELECT PRODUCT CITATIONS

- Aman, M.J., et al. 1998. The inositol phosphatase SHIP inhibits Akt/PKB activation in B cells. *J. Biol. Chem.* 273: 33922-33928.
- Mahoney, M.G., et al. 1998. Translocation of the zinc finger protein baso-nuclin from the mouse germ cell nucleus to the midpiece of the spermatozoon during spermiogenesis. *Biol. Reprod.* 59: 388-394.
- Zhang, J., et al. 2010. Cardiac stem cells differentiate into sinus node-like cells. *Tohoku J. Exp. Med.* 222: 113-120.
- Reisig, K., et al. 2010. Fibroblast growth factor-2 binding to the endothelial basement membrane peaks at a physiologically relevant shear stress. *Matrix Biol.* 29: 586-593.
- Zhang, J., et al. 2011. Differentiation induction of cardiac c-kit positive cells from rat heart into sinus node-like cells by 5-azacytidine. *Tissue Cell* 43: 67-74.
- Mouline, C.C., et al. 2012. Monocytes differentiation upon treatment with a peptide corresponding to the C-terminus of activated T cell-expressed Tirc7 protein. *J. Cell. Physiol.* 227: 3088-3098.
- Woo, S.K., et al. 2012. Sequential activation of hypoxia-inducible factor 1 and specificity protein 1 is required for hypoxia-induced transcriptional stimulation of Abcc8. *J. Cereb. Blood Flow Metab.* 32: 525-536.
- Hong, M.Y., et al. 2012. Effect of c-Jun NH₂-terminal kinase-mediated p53 expression on neuron autophagy following traumatic brain injury in rats. *Chin. Med. J.* 125: 2019-2024.
- Banerjee, P., et al. 2013. Proinflammatory cytokines induced altered expression of cyclooxygenase-2 gene results in unreceptive endometrium in women with idiopathic recurrent spontaneous miscarriage. *Fertil. Steril.* 99: 179-187.

RESEARCH USE

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