SANTA CRUZ BIOTECHNOLOGY, INC.

goat anti-rabbit IgG-FITC: sc-2012

SANTA CRUZ BIOTECHNOLOGY

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 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 isothiocyanate), 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-rabbit IgG-FITC is a pre-adsorbed, affinity purified secondary antibody raised in goat against rabbit 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-rabbit IgG-FITC is recommended for detection of rabbit 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 10^6 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 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

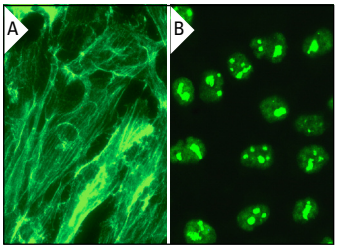
- Paraffin, for the preparation of tissue samples for staining, 500 g: sc-286633
- Xylenes, mixed isomers with ethylbenzene, 500 ml: sc-237422
- Hematoxylin, Gill's Formulation #2; nuclear counter stain, 100 ml: sc-24973

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

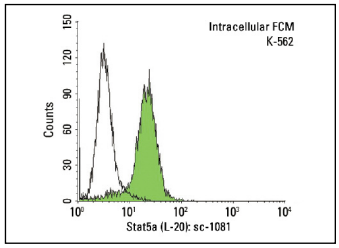
STORAGE

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

DATA



goat anti-rabbit IgG-FITC: sc-2012. Immunofluorescence staining of methanol-fixed NIH/3T3 cells showing membrane localization (**A**) and HeLa cells showing nucleolar and nuclear localization (**B**). Antibodies tested: calsyntenin-1 (N-12): sc-133314 (**A**) and NDH II (H-300): sc-66997 (**B**).



goat anti-rabbit IgG-FITC: sc-2012. Indirect, intracellular FCM analysis of fixed and permeabilized K-562 cells stained with Stat5a (L-20), followed by FITC-conjugated goat anti-rabbit IgG: sc-2012. Black line histogram represents the isotype control, normal rabbit IgG: sc-3888. Antibody tested: Stat5a (L-20): sc-1081.

SELECT PRODUCT CITATIONS

1. Gorelik, L., et al. 2000. Abrogation of TGFb signaling in T cells leads to spontaneous T cell differentiation and autoimmune disease. Immunity 12: 171-181.
2. Liu, C., et al. 2000. MyoD-dependent induction during myoblast differentiation of p204, a protein also inducible by interferon. Mol. Cell. Biol. 20: 7024-7036.
3. Fischer, G., et al. 2011. Direct injection into the dorsal root ganglion: technical, behavioral, and histological observations. J. Neurosci. Methods 199: 43-55.
4. Hou, H.H., et al. 2012. N-terminal domain of soluble epoxide hydrolase negatively regulates the VEGF-mediated activation of endothelial nitric oxide synthase. Cardiovasc. Res. 93: 120-129.
5. Cortés, R., et al. 2012. Differences in MEF2 and NFAT transcriptional pathways according to human heart failure aetiology. PLoS ONE 7: e30915.
6. Dai, H.Y., et al. 2012. The roles of connective tissue growth factor and integrin-linked kinase in high glucose-induced phenotypic alterations of podocytes. J. Cell. Biochem. 113: 293-301.
7. Xu, C., et al. 2012. Stromal-epithelial interactions modulate cross-talk between prolactin receptor and HER2/Neu in breast cancer. Breast Cancer Res. Treat. 134: 157-169.
8. Galateanu, B., et al. 2012. Layer-shaped alginate hydrogels enhance the biological performance of human adipose-derived stem cells. BMC Biotechnol. 12: 35.

RESEARCH USE

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