SANTA CRUZ BIOTECHNOLOGY, INC.

goat anti-rabbit IgG, F(ab')$_2$-PE-Cy5: sc-3844

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 such as the Fc or F(ab')$_2$ regions. Santa Cruz Biotechnology offers an extensive selection of F(ab')$_2$ specific secondary antibodies for immunohistochemistry and flow cytometry that are non-conjugated or labeled with either AP (alkaline phosphatase), fluorescein, biotin, FITC (fluorescein isothiocyanate), Texas Red®, TRITC (tetra-methyl rhodamine isothiocyanate), PE (phycoerythrin), PE-Cy5 (phycoerythrin with cyanin-5), PE-Cy7 (phycoerythrin with cyanin-7), APC (allophycocyanin), APC-Cy7 and (allophycocyanin with cyanin-7). F(ab')$_2$ secondary antibodies are specific for commonly used primary antibody species, including goat, rabbit, mouse and rat, and are recommended for reducing non-specific secondary antibody binding to Fc receptors on the cell surface.

SOURCE

goat anti-rabbit IgG, F(ab')$_2$-PE-Cy5 is an affinity purified pre-adsorbed, F(ab')$_2$ fragment secondary antibody raised in goat against rabbit IgG and conjugated to PE-Cy5 (phycoerythrin with cyanin-5).

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-rabbit IgG, F(ab')$_2$-PE-Cy5 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 for use when trying to avoid non-specific secondary antibody binding to Fc receptors on cell surfaces.

RECOMMENDED SUPPORT PRODUCTS

- 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
- 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
- Hematoxylin, Gill's Formulation #2; nuclear counter stain, 100 ml: sc-24973
- EDTA, Disodium Salt, Dihydrate, chelating agent, 500 g: sc-29092

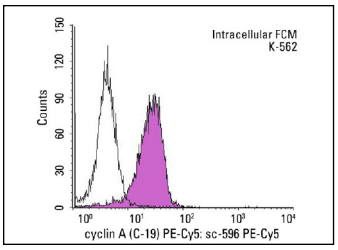
RESEARCH USE

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

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 F(ab')$_2$-PE-Cy5: sc-3844. Indirect, intracellular FCM analysis of fixed and permeabilized K-562 cells stained with cyclin A (C-19), followed by PE-Cy5-conjugated goat anti-rabbit IgG F(ab')$_2$: sc-3844. Black line histogram represents the isotype control, normal rabbit IgG: sc-2027. Antibody tested: cyclin A (C-19): sc-596.

SELECT PRODUCT CITATIONS

1. Litvinov, I.V., et al. 2006. Androgen receptor as a licensing factor for DNA replication in androgen-sensitive prostate cancer cells. Proc. Natl. Acad. Sci. USA 103: 15085-15090.
2. Zhang, S., et al. 2007. Basonuclin regulates a subset of ribosomal RNA genes in HaCaT cells. PLoS ONE 2: e902.
3. Kitazawa, A., et al. 2010. Accumulation of neurons differentiated from mouse embryonic stem cells in particular areas of culture plate surface. J. Biosci. Bioeng. 110: 238-241.
4. Matsumoto, K., et al. 2010. Stimulation of neuronal neurite outgrowth using functionalized carbon nanotubes. Nanotechnology 21: 115101.
5. Silva, M.A., et al. 2012. Increased bacterial translocation in gluten-sensitive mice is independent of small intestinal paracellular permeability defect. Dig. Dis. Sci. 57: 38-47.

PROTOCOLS

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