SANTA CRUZ BIOTECHNOLOGY, INC.

goat anti-rabbit IgG, F(ab')$_2$-FITC: sc-3839

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 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')$_2$-FITC is an affinity purified pre-adsorbed, F(ab')$_2$ fragment 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 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, F(ab')$_2$-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 for use when trying to avoid non-specific secondary antibody binding to Fc receptors on cell surfaces.

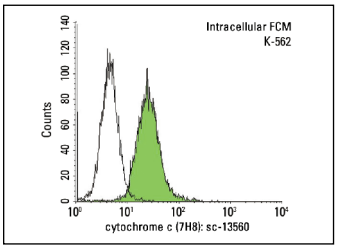
RECOMMENDED SUPPORT PRODUCTS

- 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

STORAGE

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

DATA



goat anti-mouse IgG-FITC: sc-2010. Indirect, intracellular FCM analysis of fixed and permeabilized K-562 cells stained with cytochrome c (7H8), followed by FITC-conjugated goat anti-mouse IgG: sc-2010. Black line histogram represents the isotype control, normal mouse IgG_{2b}: sc-3879. Antibody tested: cytochrome c (7H8): sc-13560.

SELECT PRODUCT CITATIONS

1. Giosue, S., et al. 1998. Effects of aerosolized interferon-α in patients with pulmonary tuberculosi. Am. J. Respir. Crit. Care Med. 158: 1156-1162.
2. Karteris, E., et al. 2005. Preeclampsia is associated with impaired regulation of the placental nitric oxide-cyclic guanosine monophosphate pathway by corticotropin-releasing hormone (CRH) and CRH-related peptides. J. Clin. Endocrinol. Metab. 90: 3680-3687.
3. Lamote, I., et al. 2007. Flow cytometric assessment of estrogen receptor β expression in bovine blood neutrophils. J. Immunol. Methods 323: 88-92.
4. La Ferla-Bruhl, K., et al. 2007. NFκB-independent sensitization of glioblastoma cells for TRAIL-induced apoptosis by proteasome inhibition. Oncogene 26: 571–582.
5. Wu, L., et al. 2009. First identification and functional analysis of a histidine triad nucleotide binding protein in an invertebrate species Haliotis diversicolor supertexta. Dev. Comp. Immunol. 34: 76-83.
6. Ohlerth, S., et al. 2010. Correlation of quantified contrast-enhanced power Doppler ultrasonography with immunofluorescent analysis of microvessel density in spontaneous canine tumours. Vet. J. 183: 58-62.
7. Pore, S.K., et al. 2013. Hsp90-targeted miRNA-liposomal formulation for systemic antitumor effect. Biomaterials 34: 6804-6817.

RESEARCH USE

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

PROTOCOLS

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