SANTA CRUZ BIOTECHNOLOGY, INC.

chicken anti-mouse IgG-FITC: sc-2989

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

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

PRODUCT

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

APPLICATIONS

chicken anti-mouse IgG-FITC is recommended for detection of mouse 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

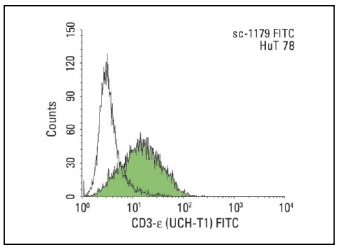
- Paraffin, for the preparation of tissue samples for staining, 500 g: sc-286633
- Xylenes, mixed isomers with ethylbenzene, 500 ml: sc-237422
- Hematoxylin, Gill's Formulation #2; nuclear counter stain, 100 ml: sc-24973

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

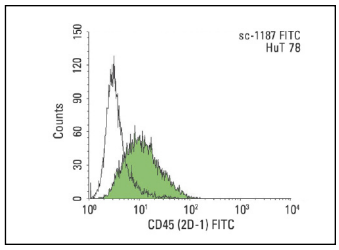
STORAGE

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

DATA



chicken anti-mouse IgG-FITC: sc-2989. Indirect FCM analysis of HuT 78 cells stained with CD3-ε (UCH-T1), followed by FITC-conjugated chicken anti-mouse IgG: sc-2989. Black line histogram represents the isotype control, normal mouse IgG1: sc-3877. Antibody tested: CD3-ε (UCH-T1): sc-1179.



chicken anti-mouse IgG-FITC: sc-2989. Indirect FCM analysis of HuT 78 cells stained with CD45 (2D-1), followed by FITC-conjugated chicken anti-mouse IgG: sc-2989. Black line histogram represents the isotype control, normal mouse IgG_1: sc-3877. Antibody tested: CD45 (2D-1): sc-1187.

SELECT PRODUCT CITATIONS

1. Runyan, C.E., et al. 2005. The role of internalization in transforming growth factor β1-induced Smad2 association with Smad anchor for receptor activation (SARA) and Smad2-dependent signaling in human mesangial cells. J. Biol. Chem. 280: 8300-8308.
2. Erenpreisa, J., et al. 2009. The role of meiotic cohesin REC8 in chromosome segregation in γ irradiation-induced endopolyploid tumour cells. Exp. Cell Res. 315: 2593-2603.
3. Yalvac, M.E., et al. 2010. Human tooth germ stem cells preserve neuroprotective effects after long-term cryo-preservation. Curr. Neurovasc. Res. 7: 49-58.
4. Salmina, K., et al. 2010. Up-regulation of the embryonic self-renewal network through reversible polyploidy in irradiated p53-mutant tumour cells. Exp. Cell Res. 316: 2099-2112.
5. Guven, E.P., et al. 2011. Effect of dental materials calcium hydroxide-containing cement, mineral trioxide aggregate, and enamel matrix derivative on proliferation and differentiation of human tooth germ stem cells. J. Endod. 37: 650-656.
6. Taslı, P.N., et al. 2013. Isolation and characterization of dental pulp stem cells from a patient with Papillon-Lefèvre syndrome. J. Endod. 39: 31-38.
7. Taslı, P.N., et al. 2013. Boron enhances odontogenic and osteogenic differentiation of human tooth germ stem cells (hTGSCs) *in vitro*. Biol. Trace Elem. Res. 153: 419-427.
8. Yalvaç, M.E., et al. 2013. Characterization of the secretome of human tooth germ stem cells (hTGSCs) reveals neuro-protection by fine-tuning micro-environment. Brain Behav. Immun. 32: 122-130.

RESEARCH USE

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