SANTA CRUZ BIOTECHNOLOGY, INC.

donkey anti-goat IgG-FITC: sc-2024

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

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

PRODUCT

Each vial contains 200 µg donkey 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

donkey anti-goat IgG-FITC is recommended for detection of goat 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

SELECT PRODUCT CITATIONS

1. Shang, X., et al. 2000. Chemokine receptor 1 knockout abrogates natural killer cell recruitment and impairs type-1 cytokines in lymphoid tissue during pulmonary granuloma formation. Am. J. Pathol. 157: 2005-2063.
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3. Watanabe, M., et al. 2005. Dual targeting of transformed and untransformed HTLV-1-infected T cells by DHMEQ, a potent and selective inhibitor of NFκB, as a strategy for chemoprevention and therapy of adult T-cell leukemia. Blood 106: 2462-2471.
4. Sowinska, A., et al. 2007. RNA interference-mediated knockdown of DNMT1 and DNMT3B induces CXCL12 expression in MCF-7 breast cancer and AsPC1 pancreatic carcinoma cell lines. Cancer Lett. 255: 153-159.
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6. May, A., et al. 2009. Multiplex rt-PCR expression analysis of developmentally important genes in individual mouse preimplantation embryos and blastomeres. Biol. Reprod. 80: 194-202.
7. Toblli, J.E., et al. 2010. Comparison of the renal, cardiovascular and hepatic toxicity data of original intravenous iron compounds. Nephrol. Dial. Transplant. 25: 3631-3640.
8. Heusch, P., et al. 2010. Increased inducible nitric oxide synthase and arginase II expression in heart failure: no net nitrite/nitrate production and protein S-nitrosylation. Am. J. Physiol. Heart Circ. Physiol. 299: H446-H453.
9. Brunert, D., et al. 2010. PI3Kγ-dependent signaling in mouse olfactory receptor neurons. Chem. Senses 35: 301-308.
10. Deng, P.Y., et al. 2010. Cholecystokinin facilitates glutamate release by increasing the number of readily releasable vesicles and releasing probability. J. Neurosci. 30: 5136-5148.
11. Jing, H., et al. 2011. Nitric oxide in enteric nervous system mediated the inhibitory effect of vasopressin on the contraction of circular muscle strips from colon in male rats. Neurogastroenterol. Motil. 23: e125-e135.
12. Fan, H., et al. 2011. Molecular mechanism underlying the differential MYF6 expression in postnatal skeletal muscle of Duroc and Pietrain breeds. Gene 486: 8-14.
13. Lee, J.H., et al. 2011. The diabetes-induced functional and distributional changes of the α 1-adrenoceptor of the abdominal aorta and distal mesenteric artery from streptozotocin-induced diabetic rats. Korean J. Anesthesiol. 60: 272-281.

STORAGE

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

RESEARCH USE

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