

goat anti-mouse IgG_{2a}-FITC: sc-2079

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 isotype-specific secondary antibodies for immunohistochemistry and flow cytometry that specifically detect mouse immunoglobulin classes such as IgG₁, IgG_{2a}, IgG_{2b}, IgG₃, IgM and IgA. Isotype-specific secondary antibodies are available conjugated to 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).

SOURCE

goat anti-mouse IgG_{2a}-FITC is a pre-adsorbed, affinity purified secondary antibody raised in goat against mouse IgG_{2a} and conjugated to FITC (fluorescein isothiocyanate).

PRODUCT

Each vial contains 200 µg mouse IgG_{2a} (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-mouse IgG_{2a}-FITC is recommended for detection of mouse IgG_{2a} 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 10⁶ 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

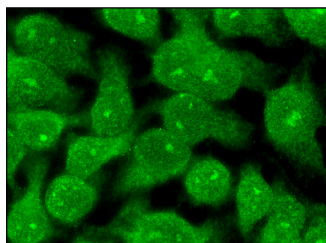
- Paraffin, for the preparation of tissue samples for staining, 500 g: sc-286633
- Xylenes, mixed isomers with ethylbenzene, 500 ml: sc-237422
- Hematoxylin, Gill's Formulation #2; nuclear counter stain, 100 ml: sc-24973

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

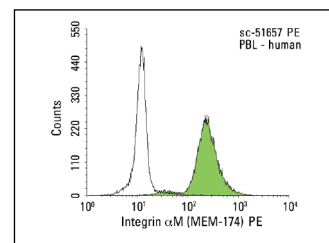
STORAGE

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

DATA



goat anti-mouse IgG_{2a}-FITC: sc-2079. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization. Antibody tested: NOSTRIN (F-10): sc-365031.



goat anti-mouse IgG_{2a}-FITC: sc-2079. Indirect FCM analysis of human peripheral blood leukocytes stained with Integrin alpha M (MEM-174), followed by FITC-conjugated goat anti-mouse IgG_{2a}: sc-2079. Black line histogram represents the isotype control, normal mouse IgG_{2a}: sc-3878. Antibody tested: Integrin alpha M (MEM-174): sc-51657.

SELECT PRODUCT CITATIONS

- Chen, J., et al. 2005. Functional significance of type 1 Insulin-like growth factor-mediated nuclear translocation of the Insulin receptor substrate-1 and β -Catenin. *J. Biol. Chem.* 33: 29912-29920.
- Abergel, A., et al. 2006. Growth arrest and decrease of α -SMA and type I collagen expression by palmitic acid in the rat hepatic stellate cell line PAV-1. *Dig. Dis. Sci.* 51: 986-995.
- Day, R.M., et al. 2008. Genistein protects against biomarkers of delayed lung sequelae in mice surviving high-dose total body irradiation. *J. Radiat. Res.* 49: 361-372.
- Heinzel, F.R., et al. 2008. Inducible nitric oxide synthase expression and cardiomyocyte dysfunction during sustained moderate ischemia in pigs. *Circ. Res.* 103: 1120-1127.
- 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.
- Tiribuzi, R., et al. 2011. Knock-down of HEXA and HEXB genes correlate with the absence of the immunostimulatory function of HSC-derived dendritic cells. *Cell Biochem. Funct.* E-published.

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.