SANTA CRUZ BIOTECHNOLOGY, INC.

goat anti-mouse IgG, F(ab')$_2$-HRP: sc-3697

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-mouse IgG, F(ab')$_2$-HRP is an affinity purified pre-adsorbed, F(ab')$_2$ fragment secondary antibody raised in goat against mouse IgG and conjugated to HRP (horseradish peroxidase).

PRODUCT

Each vial contains 200 µg goat IgG (pre-adsorbed with human IgG) in 0.5 ml of 1X PBS containing 40% glycerol.

APPLICATIONS

goat anti-mouse IgG, F(ab')$_2$-HRP is recommended for detection of mouse IgG by Western Blotting (starting dilution: 1:2000, dilution range 1:2000-1:10000) and immunohistochemical staining (starting dilution: 1:100, dilution range: 1:100-1:400). 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

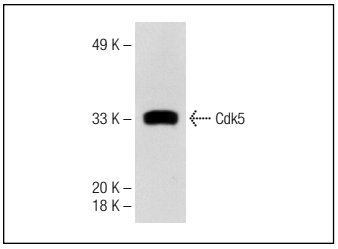
STORAGE

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

RESEARCH USE

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

DATA



goat anti-mouse IgG, F(ab')$_2$-HRP: sc-3697. Western blot analysis of Cdk5 expression in HeLa whole cell lysate. Antibody tested: Cdk5 (J-3): sc-6247.

SELECT PRODUCT CITATIONS

1. Pluznick, J.L., et al. 2005. BK-β1 subunit: immunolocalization in the mammalian connecting tubule and its role in the kaliuretic response to volume expansion. Am. J. Physiol. Renal Physiol. 288: F846-F854.
2. Fávaro, W.J., et al. 2008. Immunolocalization of androgen and oestrogen receptors in the ventral lobe of rat *(Rattus norvegicus)* prostate after long-term treatment with ethanol and nicotine. Int. J. Androl. 31: 609-618.
3. Calva-Cerqueira, D., et al. 2010. Discovery of the BMPR1A promoter and germline mutations that cause juvenile polyposis. Hum. Mol. Genet. 19: 4654-4662.
4. Touchard, E., et al. 2010. A peptide inhibitor of c-Jun N-terminal kinase for the treatment of endotoxin-induced uveitis. Invest. Ophthalmol. Vis. Sci. 51: 4683-4693.
5. Yousaf, M.N., et al. 2012. Cardiac pathological changes of Atlantic salmon *(Salmo salar L.)* affected with heart and skeletal muscle inflammation (HSMI). Fish Shellfish Immunol. 33: 305-315.
6. Yousaf, M.N., et al. 2013. Comparative cardiac pathological changes of Atlantic salmon *(Salmo salar L.)* affected with heart and skeletal muscle inflammation (HSMI), cardiomyopathy syndrome (CMS) and pancreas disease (PD). Vet. Immunol. Immunopathol. 151: 49-62.
7. Zhao, A., et al. 2013. Transiently transfected purine biosynthetic enzymes form stress bodies. PLoS ONE 8: e56203.
8. Fang, F., et al. 2013. Adiponectin attenuates angiotensin II-induced oxidative stress in renal tubular cells through AMPK and cAMP-Epac signal transduction pathways. Am. J. Physiol. Renal Physiol. 304: F1366-F1374.

PROTOCOLS

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