SANTA CRUZ BIOTECHNOLOGY, INC.

anti-Cy5 (B-2): sc-166896

BACKGROUND
Cyanine is a non-systematic name of a synthetic dye family belonging to the polymethine group. The family of cyanine dyes include Cy2, Cy3, Cy5, Cy7 and their derivatives, which the numbers are based on the partially saturated indole nitrogen heterocyclic nucleus with two aromatic units being connected via a polyalkene bridge of varying carbon number. Cyanines have many uses as fluorescent dyes, particularly in biomedical imaging. Depending on the structure, they cover the spectrum from infrared to ultraviolet. Cyanines are utilized to increase the sensitivity range of photographic emulsions, such as increasing the range of wavelengths which will form an image on film. Cyanines are mostly green or light blue in color, and are chemically unstable. Anti-Cyanine may be immobilized and used to bind the Cyanine dyes in a linker system. A linker system is provided where a small molecule reactive group, e.g., an activity based probe which binds to certain enzymes at the active site, is linked through an aryl diazo linker to an affinity molecule.

REFERENCES

SOURCE
anti-Cy5 (B-2) is a mouse monoclonal antibody specific for the detection of Cy5 dye.

PRODUCT
Each vial contains 200 µg IgG1 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

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

APPLICATIONS
anti-Cy5 (B-2) is recommended for detection of Cy5 by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

RECOMMENDED SECONDARY REAGENTS
To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-mouse IgG-FITC: sc-2010 (dilution range: 1:100-1:400) or goat anti-mouse IgG-TR: sc-2781 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA
anti-Cy5 (B-2): sc-166896. Western blot analysis of Cy5 in Cy5-conjugated BSA.

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.