

anti-Cyanine (C-2): sc-166895

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

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SOURCE

anti-Cyanine (C-2) is a mouse monoclonal antibody specific for the detection of Cyanine dyes.

STORAGE

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

PROTOCOLS

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

PRODUCT

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

anti-Cyanine (C-2) is available conjugated to agarose (sc-166895 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to either phycoerythrin (sc-166895 PE), fluorescein (sc-166895 FITC), Alexa Fluor® 488 (sc-166895 AF488), Alexa Fluor® 546 (sc-166895 AF546), Alexa Fluor® 594 (sc-166895 AF594) or Alexa Fluor® 647 (sc-166895 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-166895 AF680) or Alexa Fluor® 790 (sc-166895 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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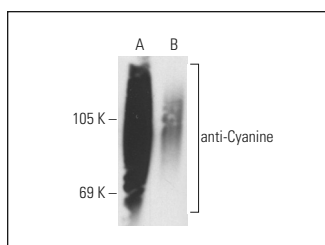
APPLICATIONS

anti-Cyanine (C-2) is recommended for detection of Cyanine by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



anti-Cyanine (C-2): sc-166895. Western blot analysis of cyanine in Cy3-conjugated BSA (A) and Cy5-conjugated BSA (B).

RESEARCH USE

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