**BACKGROUND**

Plasmid vectors for the expression of coding regions of eukaryotic genes in bacterial, insect and mammalian hosts are of common usage; such expression vectors are frequently used to encode hybrid protein fusions consisting of a eukaryotic target protein and a specialized region designed for fluorescent visualization. Common fluorescent tags include green fluorescent protein (GFP) and red fluorescent protein 2 (DsRed2), a variant of DsRed. DsRed2 exhibits high signal to noise ratio and distinct spectral properties, making it a useful fusion tag for various proteins.

**REFERENCES**


**SOURCE**

DsRed2 (25) is a mouse monoclonal antibody raised against a recombinant fragment corresponding to amino acids 21-245 of DsRed2 protein.

**PRODUCT**

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

DsRed2 (25) is available conjugated to agarose (sc-101526 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-101526 HRP), 200 µg/ml, for WB, (HCP) and ELISA; to either phycocerythrin (sc-101526 PE), fluorescein (sc-101526 FITC), Alexa Fluor® 488 (sc-101526 AF488), Alexa Fluor® 546 (sc-101526 AF546), Alexa Fluor® 594 (sc-101526 AF594) or Alexa Fluor® 647 (sc-101526 AF647), 200 µg/ml, for WB (RGB), IF, (HCP) and FCM; and to either Alexa Fluor® 680 (sc-101526 AF680) or Alexa Fluor® 790 (sc-101526 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

DsRed2 (25) is recommended for detection of DsRed2 by Western Blotting (starting dilution 1:200, dilution range 1:100-1:10000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:30000).

Molecular Weight of DsRed2: 25 kDa.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG HRP: 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).

**STORAGE**

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

**DATA**

![DsRed2 Western blot analysis](image)

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.