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 fusion proteins consisting of an 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 DsRed2 protein (amino acids 21-245).

PRODUCT
Each vial contains 200 µg IgG κ 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, IHC(P) and ELISA; and to either phycoerythrin (sc-101526 PE), fluorescein (sc-101526 FITC), Alexa Fluor® 488 (sc-101526 AF488) or Alexa Fluor® 647 (sc-101526 AF647), 200 µg/ml, for IF, IHC(P) and FCM.

APPLICATIIONS
DsRed2 (25) is recommended for detection of DsRed2 by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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 κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048.

DATA

SELECT PRODUCT CITATIONS

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.

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

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