Technical Data Sheet

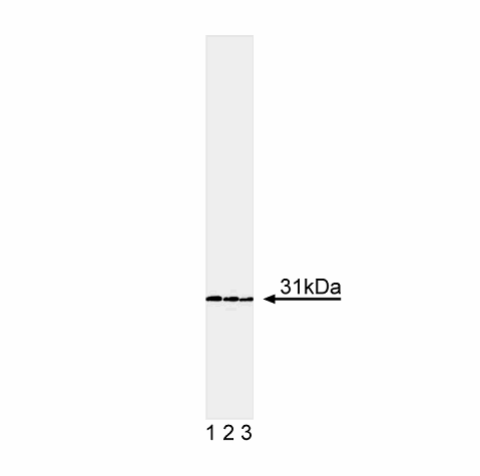
Purified Mouse Anti-DsRed with Control

Product Information

Material Number:	**551814**
Size:	50 µg
Component:	**51-8115GR**
Description:	Purified Mouse Anti-DsRed
Size:	50 µg (1 ea)
Concentration:	0.25 mg/ml
Clone Name:	E64-1077
Immunogen:	DsRed1 recombinant protein
Isotype:	Mouse IgG1, κ
Target MW:	31 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.
Component:	**51-16616N**
Description:	DsRed Control Lysate
Size:	100 µl (1 ea)
Storage Buffer:	SDS-PAGE buffer (62mM Tris pH 6.8, 2% SDS, 0.9% b-mercaptoethanol, 0.003% bromophenol blue, 5% glycerol)

Description

DsRed is naturally occurring fluorescent protein from a coral of the genus *Discosoma*. DsRed, like green fluorescent protein (GFP) can be introduced into either cultured cells or in transgenic animals to study the localization of a specific protein. It can also be used in fusion constructs with a protein of interest to examine protein-protein interactions or as a general marker. The crystal structure of DsRed has been solved and shown that DsRed monomers exhibit similar topology to GFP, but have additional chemical modifications which account for differences in the spectra, when compared to GFP. DsRed has a longer emission/absorption wavelength than GFP. DsRed migrates at 31 kDa in SDS/PAGE. The antibody recognizes three forms of DsRed; 1, 2 and pTimer. A recombinant protein representing DsRed1 was used as the immunogen.



Western blot analysis of DsRed. *Lysate from DsRed2 was probed with anti-DsRed (clone E64-1077, Cat. No. 551814) at concentrations of 1.0 (lane 1), 0.5 (lane 2), and 0.25 µg/ml (lane 3). DsRed is identified as a band of ~31 kDa.*

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at -20°C.

Application Notes

Application

Western blot	Routinely Tested

BD Biosciences

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Recommended Assay Procedure:

Applications include western blot analysis (0.25-1.0 µg/ml). DsRed2 control lysate is provided as a positive control (component 51-16616N) and approximately 10 µl is recommended to visualize DsRed by western blot analysis.

Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Wall MA, Socolich M, Ranganathan R. The structural basis for red fluorescence in the tetrameric GFP homolog DsRed. *Nat Struct Biol.* 2000; 7(12):1133-1138. (Biology)