PRODUCT INFORMATION

Version: 07/29/2008

Protein Marker for Fluorescent Western Blotting

Cat. No. M00124
Size: 100 Lanes
Category: Protein Maker

Description

This protein marker is designed for convenient protein band identification in fluorescent Western Blotting. It is a lyophilized mixture of five recombinant proteins that are able to bind to primary and/or secondary antibodies derived from a wide range of host species. It thus enables direct visualization of both the protein marker and users' samples on the same western blot membrane without any additional reagents.

Calculations

The apparent molecular weights of its five protein bands are 22 kDa, 40 kDa, 60 kDa, 85 kDa and 120 kDa.

Reconstitute

Reconstitute the powder with 500 µl reconstitution buffer.
Load 5 µl per lane for a mini-gel.

Storage

After reconstitution, aliquot and store at -20°C or below for long-term storage. Aliquots may be stable at 4°C for one month.

Notes:

1. Non-BSA based blocking reagents (such as 5% skimmed milk) are recommended for blocking.
2. For best results, the loading volume of the marker should be optimized for different experiment conditions (from 2.5 µl to 10 µl).
3. This marker binds to the constant region of IgG, so protein A or protein G fluorephore conjugates cannot be used as the secondary antibody.

Example

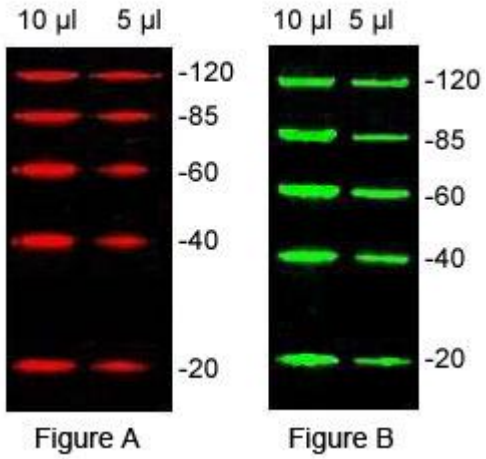

Figure A Figure B

10 µl and 5 µl of reconstituted protein marker for Fluorescent Western Blotting were loaded in 12% Express SDS-PAGE gel (GenScript, MG012W10). Antibodies used were Rabbit total IgG and IRDye 680 conjugated Goat Anti-Rabbit IgG (LI-COR) (Fig.A) and Mouse total IgG and IRDye 800CW conjugated Goat Anti-Mouse IgG (LI-COR) (Fig.B). Images were acquired using Odyssey Infrared Imaging system (LI-COR).