Datasheet for ABIN6953293

Blocking Buffer for Fluorescent Western Blotting (2X)

1 Image

Go to Product page

Overview

Quantity:	50 mL
Application:	Western Blotting (WB)

Product Details

Purpose:	Blocking Buffer for Fluorescent Western Blotting (2X)
Characteristics:	Western Blot Blocking Buffer is ideal for infrared Western Blotting. Fluorescence technology is widely used to detect proteins. However, many common visible fluorophores often result in considerable background fluorescence in the visible range. Visible fluorophores are rarely used for membrane-based protein detection because of this high background. IRDye™800, IRDye™700DX, Alexa Fluor® 680 and Cy5.5™ antibody and reagent conjugates are specifically designed for protein detection methods that use longer-wavelength, near-infrared (IR) fluorophores to visualize proteins in western blotting and other applications. IRDye™800 and IRDye™700DX fluoresce outside the range of most autofluorescence and therefore specific signal is sharply evident from any background giving the best possible signal-to-noise ratio. Detection levels in the picogram range on Western blots rival the sensitivity of chemiluminescence on film. IRDye™800 conjugates are also suitable for immunofluorescence microscopy using commercially available excitation/emission filters in the 780nm/820nm range. Dual simultaneous labeling in western blots or microscopy is achieved when IRDye™800 conjugates are used in conjunction with IRDye™700 or Cy5.5™ conjugates. IRDye™800 and IRDye™700DX conjugates provide an ultra-sensitive and convenient alternative to standard chemiluminescent protein detection methods, as well as a valuable tool for multicolor imaging. Once reacted with the membrane and dried, IRDye™800 and IRDye™700DX conjugated antibody-protein complexes are very stable, and membranes can be stored protected from light, re-washed and/or rescanned.

Product Details

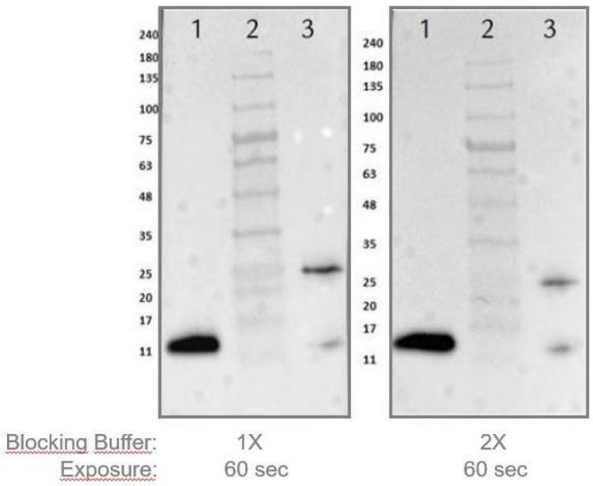
Purification:	This product was aseptically filtered through a Millipore 0.22 micron filter into clean, pre-sterilized containers. The product was tested on trypticase soy agar for 24 hours, 48 hours and 72 hours and was found to be negative for bacteria.
Sterility:	Sterile filtered

Application Details

Application Notes:	This blocking buffer is specifically designed for western blotting using fluorochrome conjugated antibodies and can be used for membrane blocking and to dilute both primary and secondary antibodies. This buffer was prepared using ultra-pure reagents dissolved in pharmaceutical grade water (WFI) and consists of a proprietary protein formulation in TRIS buffered saline at pH 7.6 with thimerisol added as an antimicrobial agent. This product is a 2X concentrated stock solution. Prepare a 1X working solution by diluting 1 part 2X concentrate with 1 parts TBS or equivalent.
Comment:	Blocking buffer is specifically formulated to achieve superior reproducible western blotting images using this system.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Western Blot : User Defined Other Dilution: Blocking solution can be diluted 1:1 in TBS or used undiluted. Thimerosal is added as an antimicrobial agent.
Handling Advice:	DO NOT FREEZE.
Storage:	4 °C
Storage Comment:	Store blocking buffer at 4° C prior to opening. DO NOT FREEZE.
Expiry Date:	6 months



Western Blotting

Image 1. Western Blot Comparison of 1X and 2X Universal Blocking Buffer. Lane 1: reduced human NAG1 protein 0.1µg. Lane 2: Prestained Molecular Weight Marker 5µL. Lane 3: non-reduced human NAG1 protein 0.1µg. Blocking Buffer: Left blot 1X (ABIN925618), Right blot 2X (ABIN6953293) for 30 min at RT. Primary Antibody: rabbit anti-NAG1 biotin conjugated antibody (ABIN1043807) at 1µg/mL overnight at 2-8°C. Secondary Antibody: goat anti-rabbit antibody HRP conjugated (ABIN102010) at 1:70,000 for 30 min at RT. Expect: ~14kDa for NAG1.