Introduction

.entroid marsew nnparalleled sensitivity and reproducibility in bright and resistant to photobleaching, and they otter plotting. These tagged antibodies are exceptionally fluorescently tagged detection reagents for western Bio-Rad's StarBright Blue Secondary Antibodies are

enabled ChemiDoc MP Imaging System. /00 nm) may be imaged using the fluorescence-Blue 100 Antibodies (excitation: 410 nm, emission: (excitation: 440 nm, emission: 520 nm) and StarBright Western blots visualized with StarBright Blue 520

Protein Primary Antibodies for normalizing protein be used with hFAB Rhodamine Anti-Housekeeping fluorescent antibodies for multiplexing. They may also be used with each other and with other traditional StarBright Blue 520 Secondary Antibodies may

sjunowe buipeol

All trademarks used herein are the property of their respective owner. BIO-RAD is a trademark of Bio-Rad Laboratories, Inc.

10000079534 Ver C (12005871) 19-0857 1219

Bio-Bad Laboratories, Inc. 2000 Alfred Nobel Drive, Hercules, CA 94547 USA 510-741-1000

12005867	StarBright Blue 520 Goat Anti-Mouse IgG, 80 µ
12005869	StarBright Blue 520 Goat Anti-Rabbit IgG, 400 µl
12005870	StarBright Blue 520 Goat Anti-Rabbit IgG, 80 µl
StarBright BI	ue 700 Secondary Antibodies
12004158	StarBright Blue 700 Goat Anti-Mouse IgG, 400 µl
12004159	StarBright Blue 700 Goat Anti-Mouse IgG, 80 µl
12004161	StarBright Blue 700 Goat Anti-Rabbit IgG, 400 µl
12004162	StarBright Blue 700 Goat Anti-Rabbit IgG, 80 µl
Related Prod	ucts
12004163	hFAB Rhodamine Anti-Actin Primary Antibody, 200 µl
12004164	hFAB Rhodamine Anti-Actin Primary Antibody, 40 µl
12004165	hFAB Rhodamine Anti-Tubulin Primary Antibody, 200 µl
12004166	hFAB Rhodamine Anti-Tubulin Primary Antibody, 40 µl
12004167	hFAB Rhodamine Anti-GAPDH Primary Antibody, 200 µl
12004168	hFAB Rhodamine Anti-GAPDH Primary Antibody, 40 µl
1610782	1x Tris Buffered Saline (TBS) with 1% Casein, 1 \lfloor
1706435	10x Tris Buffered Saline (TBS), 1 L
1610781	10% Tween 20, 1 L
1610416	10% SDS Solution, 250 ml
12010020	EveryBlot Blocking Buffer, 500 ml
12010947	EveryBlot Blocking Buffer, 50 ml
1610373	Precision Plus Protein All Blue Standards, 500 µl

StarBright Blue 520 Goat Anti-Mouse IgG, 400 µl

StarBright Blue Fluorescent Secondary Antibodies

Instruction Manual

Catalog #	Description
12005866	StarBright Blue 520 Goat Anti-Mouse IgG, 400 µl
12005869	StarBright Blue 520 Goat Anti-Rabbit IgG, 400 µl
12004158	StarBright Blue 700 Goat Anti-Mouse IgG, 400 µl
12004161	StarBright Blue 700 Goat Anti-Rabbit IgG, 400 µl

Goat abbi

For technical support call your local Bio-Rad office. In the U.S. call 1-800-4BIORAD (1-800-424-6723).

BIO-RAC

Trial size (80 µl) available.

See back page for ordering information. Shelf life: 1 year at -20°C lyophilized;

6 months at 4°C after resuspension. Visit bio-rad.com/web/StarBright for more detailed information about this product.

StarBright Blue 520 Secondary Antibodies

Catalog #

12005866

Instructions for Use

Preparation

Resuspend contents of the tube in the indicated volume of distilled or deionized water and leave on ice for at least 30 min prior to use. The resuspended solution may be stored at 4°C in the dark for up to 6 months. **Do not freeze the solubilized material.**

Brief centrifugation (pulse spin for 2–3 sec at maximum speed in a tabletop microcentrifuge) may be used to collect the contents at the bottom of the tube. Do not centrifuge more than 10 sec.

General Guidelines

StarBright Blue Secondary Antibodies may be used for detection on low fluorescence polyvinylidene difluoride (LF PVDF) or nitrocellulose membranes.

For blocking and washing, use 15 ml for a mini blot. For primary and secondary antibody incubations, use 10 ml for a mini blot. Use the smallest flat bottom tray that will accommodate the blot.

Protect the blot from light (for example, using aluminum foil) during incubations with fluorescent antibodies. Image immediately after step 4 for best results.

Do not allow the blot to dry out during washes or antibody incubations.

We recommend using Precision Plus Protein All Blue Standards (2–3 µl) since red- or pink-colored standards may fluoresce brightly in the rhodamine imaging channel and can interfere with data acquisition. Shake or rock well (without spilling) during incubations with the StarBright Blue Secondary Antibodies.

Dilute StarBright Blue Secondary Antibodies into incubation solution immediately prior to use.

Blots detected with StarBright Antibodies cannot be stripped because of the high binding of StarBright polymeric nanoparticles to membranes.

StarBright Blue Secondary Antibodies may be used successfully in many different immunodetection protocols. The following protocol is recommended for detection with high sensitivity, low background, and minimal nonspecific cross-reactivity.

Protocol

- 1. **Block:** 1 hr at room temperature (RT) with 1x Tris Buffered Saline (TBS) with 1% Casein (catalog #1610782). If using EveryBlot Blocking Buffer, block for 5 min.
- Incubate in primary antibody: Dilute and incubate the primary antibody as specified in your protocol or by the vendor. If no protocol is provided with the primary antibody, it may be diluted in TBS + 1% casein buffer or EveryBlot Blocking Buffer.
- 3. **Wash:** 5 x 5 min at RT with TBST (TBS + 0.05% Tween 20).
- Incubate with StarBright Blue Secondary Antibody: Dilute secondary antibody 1:2,500 in TBS + 1% casein or EveryBlot Blocking Buffer.

If using LF PVDF membrane, also add 0.02% sodium dodecyl sulfate (SDS). For nitrocellulose, do not add SDS.

Note: The presence of 0.02% SDS in the StarBright Incubation Buffer for LF PVDF blots does not affect the performance of other fluorescent antibodies, such as DyLight 800 Antibodies or hFAB Rhodamine Anti-Housekeeping Protein Primary Antibodies.

- 5. Wash: 6 x 5 min at RT with TBST.
- Image: Use the ChemiDoc MP Imaging System with Image Lab Touch Software. Select StarBright B520 or StarBright B700 under Application > Blots (for Image Lab Touch Software, version 2.3 and later software releases).

If using an hFAB Rhodamine Anti-Housekeeping Protein Antibody for protein loading normalization, configure a multichannel imaging protocol by selecting **Rhodamine** under **Application > Blots** (for Image Lab Touch Software, version 2.3 and later software releases).