SB232010

SureBlock™

High Capacity Blocking Agent

Available Sizes

SB231010-5G	(5 g, sample size)
SB231010-50G	(50g)
SB231010-250G	(250 g)
SB231010-500G	(500g)
SB231010-1000G	(1 kg)

Physical properties

- Gelatine-based, average MW 3 kDa, high pharmaceutical quality
- Fat free and free of carbohydrates
- High solubility in aqueous solution (up to 50 % [w/v] at 4°C)
- Usable pH-range 5 – 8.5

Applications

- Western blotting and Dot blotting
- ELISA and immunohistochemistry (IHC)
- Surface coating and gene chip technologies (replacement for acetylated BSA)

Advantages

- Better blocking capacity than BSA
- Virtually no background in Western blotting
- Increased signal-to-noise ratio in ELISA

Protocol 1: Standard Western Blotting

1. Perform SDS-polyacrylamide gel electrophoresis (SDS-PAGE) of your samples and transfer proteins to either nitrocellulose or PVDF membrane
2. Prepare **Blocking Buffer**: dissolve **Sure**Block™ to a final concentration of 1-3% (w/v) in either PBS (phosphate buffered saline) or TBS (Tris buffered saline) with appropriate detergent
3. Block residual binding sites by incubating the membrane in **Blocking Buffer** for 30-60 minutes at room temperature with constant agitation
4. Prepare **1st Antibody Solution** my diluting your primary antibody in **Blocking Buffer** as per the instructions on the antibody datasheet
5. Incubate the membrane in **1st Antibody Solution** either at room temperature for several hours or overnight at 4°C with constant agitation
6. Wash the membrane several times with **Blocking Buffer**
7. Prepare **2nd Antibody Solution** my diluting your secondary antibody in **Blocking Buffer** as per the instructions on the antibody datasheet
8. Incubate the membrane with **2nd Antibody Solution** at room temperature for 1 hour with constant agitation
9. Wash membrane several times in **Blocking Buffer**
10. Wash membrane twice in PBS or TBS
11. Use detection method of choice according to manufacturer's instructions

Protocol 2: Western Blotting with anti-Phosphotyrosine antibodies

Protocol adapted from Kanakura et al. (1991) JBC 1, 490-495

1. Perform SDS-polyacrylamide gel electrophoresis (SDS-PAGE) of your samples and transfer proteins to either nitrocellulose or PVDF membrane
2. Prepare **Blocking Buffer**: dissolve **Sure**Block™ to a final concentration of 3-5% (w/v) in TBST (10 mM Tris pH 8.0, 150 mM NaCl; 0,5% Tween-20)
3. Block residual binding sites by incubating the membrane in **Blocking Buffer** for 30-60 minutes at room temperature with constant agitation
4. Wash 2x 5 min in TBST
5. Prepare **1st Antibody Solution** my diluting your primary anti-Tyr antibody in **Blocking Buffer** as per the instructions on the antibody datasheet
6. Incubate the membrane in **1st Antibody Solution** either at room temperature for 1-2 hours or overnight at 4°C with constant agitation
7. Wash the membrane 4x 10 min in TBST
8. Re-block the membrane for 10-15 min in freshly prepared **Blocking Buffer** at room temperature with constant agitation
9. Prepare **2nd Antibody Solution** my diluting your secondary antibody in **Blocking Buffer** as per the instructions on the antibody datasheet
10. Incubate the membrane with **2nd Antibody Solution** at room temperature for 1 hour with constant agitation
11. Wash membrane 2x 5 min and 3x 15 min in TBST
12. Use detection method of choice according to manufacturer's instructions

Shelf Life

Store SB232010 at room temperature under dry conditions. Shelf life guaranteed for at least 2 years after delivery date.

Disclaimer

This information is based on our present state of knowledge and is intended to provide general information on our products and their uses. It should not therefore be construed as guaranteeing specific properties of the product described or its suitability for a particular application.

For research use only, not for diagnostic use.

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