

## DATASHEET

### SuperBlot™ Rapid Single-Step Blocking Solution

#### Product overview

##### Name

SuperBlot™ Rapid Single-Step Blocking Solution

##### Cat No

HB9246

##### Biological description

SuperBlot™ Rapid Single-Step Blocking Solution is a novel single-step blocking solution for Western Blot that enables the rapid blocking and staining of membranes in a single stage:

- Enables blocking, primary and secondary antibody incubation all in one single step.
- Ideal for high abundance targets such as **loading controls**.
- Works in as little as 15 minutes.
- Saves hours compared to conventional methods.
- Acts as a signal enhancer to increase sensitivity.
- Also suitable for use as a conventional blocking solution.
- Animal product free.

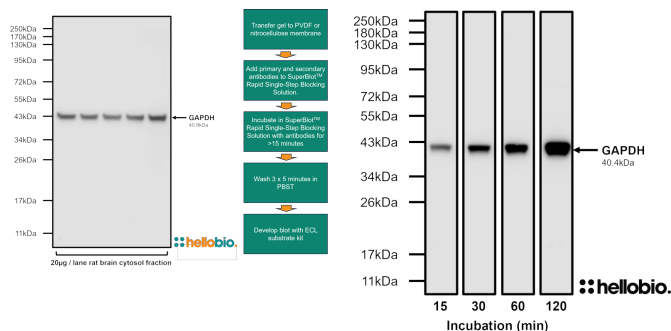
##### Applications

WB

##### Description

Rapid single-step blocking solution and signal enhancer for Western Blotting

#### Images



#### Biological Data

##### Application notes

##### One-Step Blocking Protocol

1. Add both the primary and secondary antibody to around 20ml of SuperBlot™ Rapid Single-Step Blocking Solution.
  - a. We recommend using a secondary dilution of 1:20,000
2. Following transfer, incubate the membrane in the antibody containing blocking solution for at least 15 minutes.
  - a. The signal intensity will increase with longer duration incubations. A one hour incubation is around the optimal balance between signal intensity and time saving.
  - b. It is not recommended to incubate for longer than 4 hours due to the risk of high background staining.
3. Wash the membrane three times for five minutes with either PBS-T or TBS-T
4. Develop the blot using an ECL substrate kit such as **SuperBlot™ ECL Western Blotting Substrate Kit (High sensitivity)**.

For more information about Western Blotting including buffer recipes please see our **Western Blot**

**Protocol.** It is possible to store and re-use the mixed antibodies in blocking solution at 4 °C for up to a month.

## Two-Step Blocking Protocol

1. Following transfer, incubate the membrane in around 20ml of SuperBlot™ Rapid Single-Step Blocking Solution for 1-2 hours.
2. Dilute the primary antibody into SuperBlot™ Rapid Single-Step Blocking Solution and incubate for either 1-2 hours at room temperature or overnight at 4 °C. To reduce antibody useage it is possible to use as little as 1ml with the membrane placed into a heatsealed plastic bag.
3. Wash the membrane three times for five minutes with either PBS-T or TBS-T
4. Dilute the secondary antibody into SuperBlot™ Rapid Single-Step Blocking Solution and incubate for 1-2 hours at room temperature.
5. Wash the membrane three times for five minutes with either PBS-T or TBS-T
6. Develop the blot using a ECL substrate kit such as [SuperBlot™ ECL Western Blotting Substrate Kit \(High sensitivity\)](#).

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## Solubility & Handling

### Storage instructions Storage buffer Important

Room temperature  
Contains PBS amongst other constituents  
This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

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## References

### Western blot: technique, theory, and trouble shooting.

Mahmood T et al (2012) North American journal of medical sciences 4

**PubMedID** [23050259](#)

### An overview of technical considerations for Western blotting applications to physiological research.

Bass JJ et al (2017) Scandinavian journal of medicine & science in sports 27

**PubMedID** [27263489](#)

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