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# DATASHEET

SuperBlot™ Rapid Single-Step Blocking Solution

## Product overview

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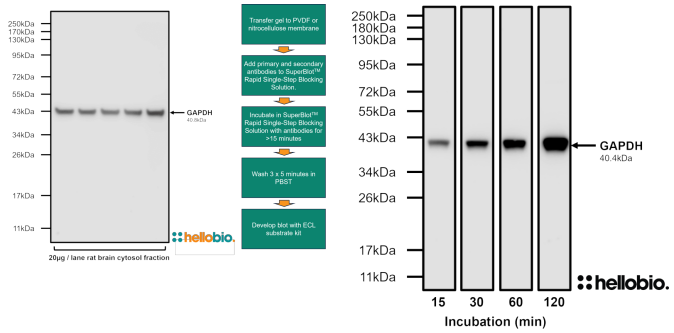
|---|---|
| **Name** | SuperBlot™ Rapid Single-Step Blocking Solution |
| **Cat No** | HB9246 |
| **Biological description** | SuperBlot™ Rapid Single-Step Blocking Solution is a novel single-step blocking solution for Western Blot that enables the rapid blocking and staining of membranes in a single stage:<br>• Enables blocking, primary and secondary antibody incubation all in one single step.<br>• Ideal for high abundance targets such as loading controls.<br>• Works in as little as 15 minutes.<br>• Saves hours compared to conventional methods.<br>• Acts as a signal enhancer to increase sensitivity.<br>• Also suitable for use as a conventional blocking solution.<br>• 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.
    1. 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.
    1. The signal intensity will increase with longer duration incubations. A one hour incubation is around the optimal balance between signal intensity and time saving.
    2. 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 a 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).

# Solubility & Handling

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

# 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