

# Amersham **ECL** blocking agent

## Product Specification Sheet

### Introduction

#### Product code

RPN2125

#### Important

Read these instructions carefully before using the products.

#### Intended use

The products are intended for research use only, and shall not be used in any clinical or *in vitro* procedures for diagnostic purposes.

#### Safety

For use and handling of the products in a safe way, refer to the Safety Data Sheets.

#### Storage

On receipt store the container at 2–8°C. After first use store at ambient temperature, ensuring that the lid is tightly closed. It is stable for at least six months when stored under the recommended conditions.

**Note:** *Moisture will affect the solubility properties of the powder. This reagent has been selected to give effective blocking of membranes in virtually all blotting contexts, if used as directed.*

#### Expiry

See outer packaging.

#### Components

**Quantity:** 40 g.

For blocking nitrocellulose and PVDF membranes to be used with ECL™ and ECL Plus Western blotting detection reagents.

#### Quality control

This product is tested according to our quality control systems using an ECL or ECL Plus Western blotting application.

#### Protocol

Step	Action
------	--------

1	<b>Block the membrane:</b> Non-specific binding sites are blocked by immersing the membrane in a 5% (w/v) solution of the blocking agent in PBS or TBS Tween™ (0.1% is usually sufficient) for 1 hour at room temperature on an orbital shaker. These conditions have been found in our laboratories to be sufficient for most purposes, but may need some optimization.
---	--

Step	Action
------	--------

2	<b>Washing:</b> PBS or TBS Tween (0.1%) (PBS-T/TBS-T) is recommended as the wash buffer. Briefly rinse the membrane twice, then wash 3 times, once for 15 minutes and twice for 5 minutes at room temperature with fresh changes of wash buffer on an orbital shaker.
3	<b>Dilution of the primary antibody:</b> During the washing step, dilute the primary antibody. Incubate the washed membrane in the diluted antibody. 1 hour at room temperature is often sufficient, but this should be optimized for each antibody.
4	<b>Washing:</b> Wash the membrane as detailed above.
5	<b>Detection:</b> Detect the binding of the primary antibody according to usual protocols.

**Note:** *It is essential to optimize both primary and secondary antibodies for results with high signal and low background due to the extreme sensitivity of the detection system when using ECL and ECL Plus.*

**Note:** *As a general rule, as large a volume of washing buffer as possible should be used each time. It may be necessary to adjust the blocking conditions for certain applications.*

**Note:** *Do not use azide as a preservative for buffers to be used in immunodetection as it is an inhibitor of Horseradish Peroxidase.*

## Related products

ECL Plus Western blotting detection reagents sufficient for 3000 cm <sup>2</sup> membrane	RPN2133
ECL Plus Western blotting detection reagents sufficient for 1000 cm <sup>2</sup> membrane	RPN2132
ECL Western blotting detection reagents sufficient for 6000 cm <sup>2</sup> membrane	RPN2134
ECL Western blotting detection reagents sufficient for 4000 cm <sup>2</sup> membrane	RPN2106
ECL Western blotting detection reagents sufficient for 2000 cm <sup>2</sup> membrane	RPN2209
ECL Western blotting detection reagents sufficient for 1000 cm <sup>2</sup> membrane	RPN2109
ECL Western blotting analysis system	RPN2108
For the detection of either mouse or rabbit membrane bound primary antibodies with ECL detection reagents. Sufficient for 1000 cm <sup>2</sup> membrane	
ECL streptavidin-HRP and blocking reagent	RPN2195
Mouse IgG, Horseradish Peroxidase linked whole antibody (from sheep)	NA931
Rabbit IgG, Horseradish Peroxidase linked whole antibody (from donkey)	NA934
Rat IgG, Horseradish Peroxidase linked whole antibody (from sheep)	NA932
Human IgG, Horseradish Peroxidase linked whole antibody (from sheep)	NA933
Mouse IgG, Horseradish Peroxidase linked F(Ab') <sub>2</sub> fragment (from sheep)	NA9310
Rabbit IgG, Horseradish Peroxidase linked F(Ab') <sub>2</sub> fragment (from donkey)	NA9340
Rat IgG, Horseradish Peroxidase linked F(Ab') <sub>2</sub> fragment (from sheep)	NA9320
Human IgG, Horseradish Peroxidase linked F(Ab') <sub>2</sub> fragment (from sheep)	NA9330
Streptavidin Horseradish Peroxidase conjugate	RPN1231
Streptavidin biotinylated Horseradish Peroxidase complex	RPN1051
ECL protein molecular weight markers	RPN2107
Rainbow™ colored protein molecular weight markers (molecular weight range 2 350 – 46 000)	RPN755
Rainbow colored protein molecular weight markers (molecular weight range 12 000 - 225 000)	RPN756E

Full Range Rainbow recombinant protein molecular weight markers (molecular weight range 12 000 – 225 000)	RPN800E
Hybond™ ECL nitrocellulose membrane	RPN2020D
Hyperfilm™-ECL	RPN2103
For details of sizes, availability and ordering information, please contact your local sales office.	

## cytiva.com

Cytiva and the Drop logo are trademarks of Global Life Sciences IP Holdco LLC or an affiliate.

Amersham™, ECL, Hybond, Hyperfilm and Rainbow are trademarks of Global Life Sciences Solutions USA LLC or an affiliate doing business as Cytiva.

Tween is a trademark of Croda Group of Companies.

All other third-party trademarks are the property of their respective owners.

© 2020-2021 Cytiva

All goods and services are sold subject to the terms and conditions of sale of the supplying company operating within the Cytiva business. A copy of those terms and conditions is available on request. Contact your local Cytiva representative for the most current information.

For local office contact information, visit [cytiva.com/contact](https://cytiva.com/contact)

28951664 AE V:4 01/2021

