

## Datasheet for KCA004

## Chemiluminescent Western Blot Kit for use with Goat Primary Antibody FemtoMax™

### Overview

|                      |                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------|
| <b>Description:</b>  | Chemiluminescent Western Blot Kit for use with Goat Primary Antibody FemtoMax™ - KCA004 |
| <b>Item No.:</b>     | KCA004                                                                                  |
| <b>Size:</b>         | 1 Kit                                                                                   |
| <b>Applications:</b> | WB                                                                                      |
| <b>Reactivity:</b>   | Goat                                                                                    |

### Product Details

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Background:</b>         | <p>This Chemiluminescent Western Blot Kit allows for the detection of primary Goat polyclonal antibodies provided by the user. After protein separation and transfer, the membrane is probed with primary antibody. Detection of the membrane bound primary antibody-antigen complex is achieved by the addition of a secondary antibody conjugated to the enzyme horseradish peroxidase. The enzyme reacts with a specialized formulation of luminol, an extremely sensitive, non-radioactive substrate that emits light and allows visualization using X-ray film or other imaging methods, including highly sensitive CCD cameras and imaging systems.</p> <p>Because of the extremely high sensitivity of our FemtoMax® Chemiluminescent Substrate Kit for Western Blotting, primary and secondary antibodies can be used at greater dilutions. If you currently dilute your primary antibody 1:1,000 using an ECL substrate equivalent, then dilute your antibody 1:5,000 using the FemtoMax® substrate.</p> |
| <b>Synonyms:</b>           | Western Blotting Kit, Chemiluminescent Kit, Peroxidase Kit, Immunoblotting Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Specificity:</b>        | IgG (H&L)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Detection Kit Type:</b> | Chemiluminescent Western Blot Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

### Target Details

|                            |                                                                                                                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity:</b>         | Goat                                                                                                                                                                                           |
| <b>Purity/Specificity:</b> | This kit contains: anti-goat peroxidase, goat IgG control, BSA, tween-20, and Femtomax, along with the protocol and additional supplies. See kit insert for complete details and instructions. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li><a href="#">Chemiluminescent Western Blot Kit Protocol: Goat Primary Antibody</a></li></ul>                                                              |

## Application Details

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b> | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Application Note:</b>    | Rockland Immunochemicals' Chemiluminescent Western Blot Kit, namely our FemtoMax™ Chemiluminescent Substrate Kit for Western Blotting, combines all of the necessary reagents with a rapid proven protocol and the extremely high signal detection of our luminol substrate. The Chemiluminescent Western Blot Kit design includes straightforward procedures and color-coding to allow for ease of use. This kit contains sufficient substrate for up to 30 mini blots at 7.5 x 8 cm <sup>2</sup> and is stable for at least 1 year when stored at +4°C. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>WB:</b>                  | 1:20,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Formulation

|                        |                                                                                        |
|------------------------|----------------------------------------------------------------------------------------|
| <b>Physical State:</b> | n/a                                                                                    |
| <b>Preservative:</b>   | Wash buffers MUST NOT contain SODIUM AZIDE or other inhibitors of peroxidase activity! |

## Shipping & Handling

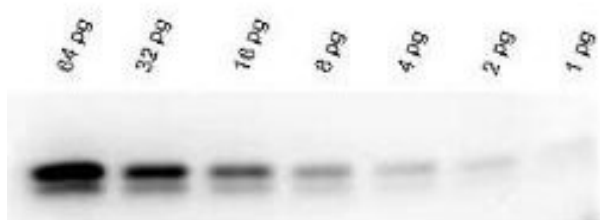
|                            |                                           |
|----------------------------|-------------------------------------------|
| <b>Shipping Condition:</b> | Wet Ice                                   |
| <b>Storage Condition:</b>  | See kit insert for complete instructions. |
| <b>Expiration:</b>         | See kit insert for complete instructions. |

## Images



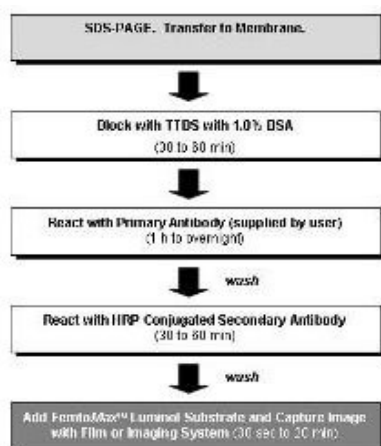
### Bottle

Rockland FemtoMax™ Chemiluminescent Western blot kits have reagents to run up to 30 mini blots at 7.5 x 8 cm<sup>2</sup>



### Western Blot

Chemiluminescent Western Blot Kit shows super sensitive signal. Known amounts of GST were spiked into a HeLa lysate followed by separation by SDS-PAGE using a 4-20 % gradient gel. Proteins were transferred to a Protran B85 membrane for 1 hour at 100 mV. The membrane was blocked with 5% BLOTTO (p/n B501-0500) in TTBS for 1 h at 4 °C. The blot was probed for 40 min with 1:1,000 dilution of Mab anti-GST (p/n 200-301-200) followed by HRP anti-Mouse IgG (p/n 610-103-121) at 1:10,000 dilution in blocking buffer for 1 h at 4°C.



### Western Blot

### Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.