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DATA SHEET

Version: 1
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1. Identification

Product name	**PriPROT™ Western Blot Kit** 100 mL
Cat. No	**PD0001**

2. Description

PriPROT™ Western Blot Kit is a **chemiluminescence-based detection kit** designed for **high-sensitivity Western blot applications**, utilizing a **lumino-based reaction** to identify **HRP-conjugated antibodies** and their associated antigens. Engineered for **picogram-level detection**, this kit ensures **accurate protein identification**.

3. Specifications

Sensitivity: Optimized for low-abundance protein detection at picogram level.
Detection Method: HRP-based chemiluminescence reaction.
Format: Pre-prepared and ready-to-use, no heating required.
Includes: 50mL x WB Solution A and 50 mL WB Solution B.

4. Applications

Western blot assays for Protein visualization and quantification.

5. Usage Instructions

1. Perform **electrophoresis**, **protein transfer**, **HRP-conjugated antibody incubation**, and **membrane washing**.
2. Prepare the **chemiluminescence working solution** by combining equal volumes of **WB Solution A and B** (e.g., **1 mL of each reagent**). **Fresh solution is recommended** for optimal performance.
3. Using **tweezers**, gently **remove excess wash buffer** from the membrane, keeping it moist. Submerge the membrane in the **working solution** (**0.125 mL per cm^2**), incubate for **1 minute**, then immediately expose to **X-ray film** or **chemiluminescence imaging**. **Extended incubation does not enhance sensitivity** and may cause **irregular bands**.
4. After incubation, **remove the membrane** and **drain excess solution**.
5. Wrap the membrane in **plastic wrap**, ensuring a **bubble-free surface**.
6. In a **darkroom**, expose the membrane to **X-ray film** or an **imaging system**.

6. Notes

- Avoid prolonged exposure to intense light, as this may reduce detection sensitivity.
- Excess protein or light exposure can cause background noise, affecting the linear correlation between protein quantity and band intensity.
- Adjust antibody dilution ratios based on experimental requirements.
- Do not use sodium azide, as it inhibits HRP enzyme activity.

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7. Further information

Product Use Limitation This product is developed, designed and sold exclusively only for research purposes use. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

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