

Datasheet for KCA379**RFP Chemiluminescent Western Blot Kit****Overview**

Description:	RFP Western Blot Kit: for RFP Chemiluminescent Western Blotting - KCA379
Item No.:	KCA379
Size:	1 Kit
Applications:	WB
Reactivity:	RFP, mBanana, mCherry, mOrange, mPlum, mStrawberry, rRFP, tdTomato

Product Details

Background:	Red Fluorescent Protein (RFP) Western Blotting kit allows for the detection of RFP-tagged recombinant proteins present in cell lysates provided by the user. After protein separation by SDS-PAGE and transfer, the membrane is probed with Rockland's optimized Anti-RFP antibody. Detection of the membrane bound 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.
Synonyms:	Western Blotting Kit, Chemiluminescent Kit, Peroxidase Kit, Immunoblotting Kit, RFP, rRFP, mCherry, tdTomato, mBanana, mOrange, mPlum, mOrange, mStrawberry
Clonality:	Polyclonal
Detection Kit Type:	Chemiluminescent Western Blot Kit

Target Details

Gene Name:	dsRed
Reactivity:	RFP, mBanana, mCherry, mOrange, mPlum, mStrawberry, rRFP, tdTomato

Purity/Specificity: Rockland Immunochemicals' Chemiluminescent Western Blot Kit for RFP combines all of the necessary reagents with a rapid proven protocol and the extremely high signal detection of our luminol chemiluminescent substrate for the detection of recombinant proteins containing wild type Red Fluorescent Protein (DsRed or RFP) and its variants such as mBanana, mCherry, DsRed2, E2-Crimson, mOrange, mOrange2, mPlum, mRaspberry, mStrawberry and tdTomato. 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 cm² (1,800 cm²) and is stable for at least 1 year when stored as indicated.

Relevant Links:

- [UniProtKB - Q9U6Y8](#)
- [RFP Western Blot Kit Protocol](#)

Application Details

Tested Applications:	WB
Application Note:	Use Rockland Immunochemicals' Anti-RFP Chemiluminescent Kit for Western Blotting for detection of RFP-tagged recombinant proteins by western blot. This kit is useful for both western blotting and dot blotting methods. Please read the entire product insert prior to use.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Optimized

Formulation

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

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	See kit insert for complete instructions.
Expiration:	See kit insert for complete instructions.

Images



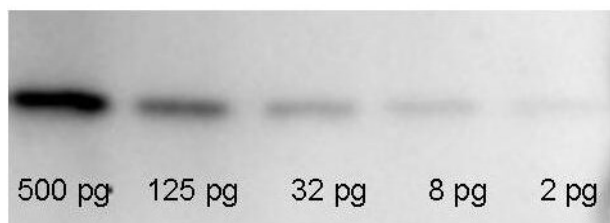
Bottle

Rockland Chemiluminescent Western Blot Kit for RFP contains sufficient reagents for up to 30 mini blots at 7.5 x 8 cm².



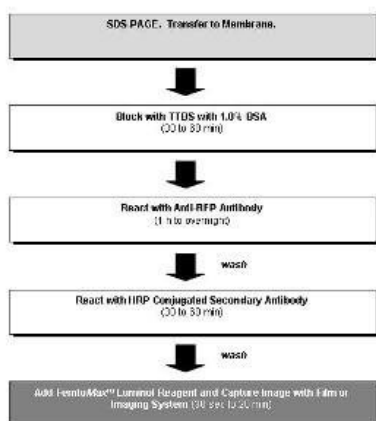
Kit Box

This product is assembled as a kit. See attached protocol or CofA for further details.



Western Blot

RFP Western Blot: Known amounts of recombinant RFP and GFP protein (p/n 000-001-215) were spiked into a HeLa cell-derived lysates (p/n W09-000-364) and separated by SDS-PAGE using a 4-20% gradient gel. Proteins were transferred onto a nitrocellulose membrane for 1 h at 100 mV. The membrane was blocked with TTBS (p/n MB-013) supplemented with 1% BSA (p/n BSA-50) for 1 h at 4°C prior to probing the blot with the anti-GFP monoclonal antibody (p/n 600-301-215) diluted 1:1,000 for 40 min. Detection of the primary antibody by the HRP-conjugated anti-Mouse IgG (p/n 610-4302) was performed at a dilution of 1:20,000 for 1 h at 4°C. FemtoMax Super Sensitive Chemiluminescent Luminol Substrate was used for signal detection (see below).



Western Blot

Flow Diagram for RFP Chemiluminescent Western Blot Procedure

References

- Ibayashi M et al. Lipid droplet synthesis is associated with angiogenesis in mouse ovarian follicles. *Biol Reprod.* (2023)
- Boshans, LL et al. Direct reprogramming of oligodendrocyte precursor cells into GABAergic inhibitory neurons by a single homeodomain transcription factor Dlx2. *Scientific Reports* (2021)

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