Stain-FREE SDS Sample buffer

Fluorescent protein labeling kit for SDS-PAGE

Stain-FREE, Saving time, High sensitivity

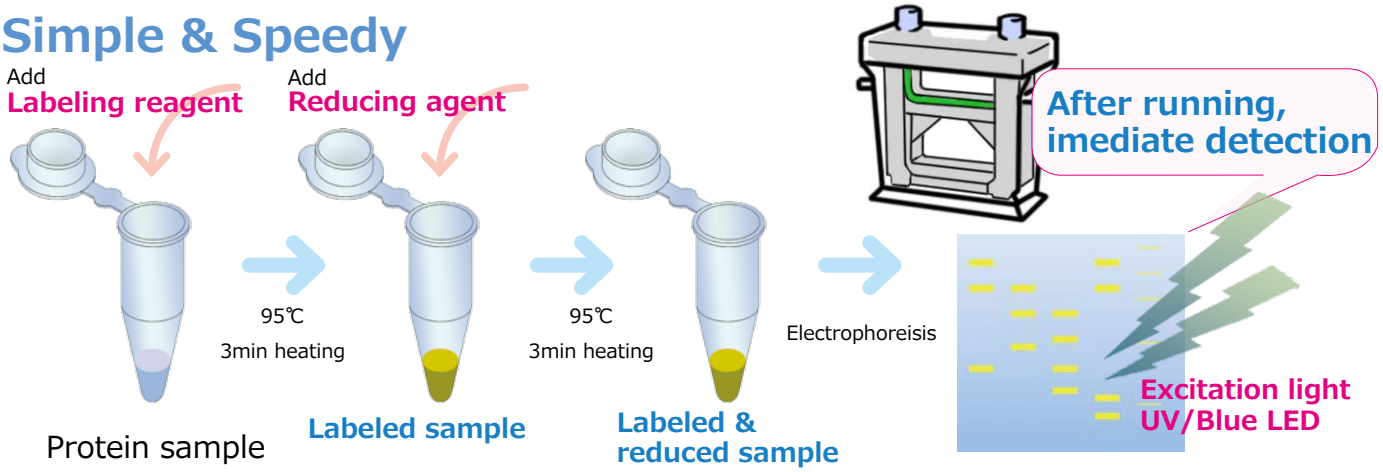
After electrophoresis, immediately visualize protein bands on gel with UV/BlueLED at silver stain level

WSE-7010 EzLabel FluoroNeo

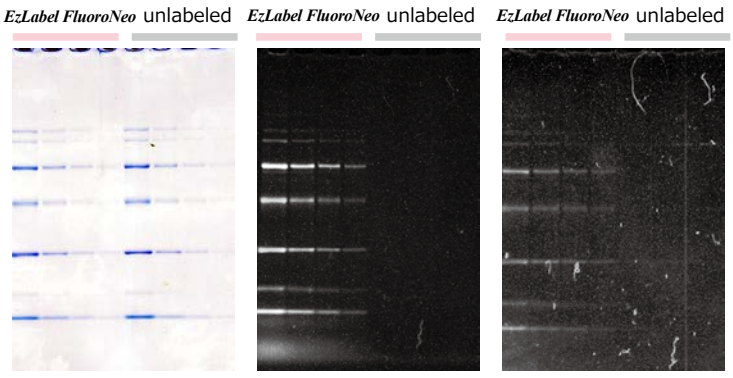
EzLabel FluoroNeo is a kit for SDS sample preparation and simultaneously for fluorescent labeling of protein and polypeptide.

- Immediate visualization protein bands after electrophoresis (Stain FREE)
  Protein fluorescence is emitted by BlueLED or UV excitation light [Ex: 330 (UV), 470 nm, Em: 530 nm]
- For western blotting, verify transfer efficiency with protein fluorescence on PVDF membrane and gel
- Amine group of protein is labeled in 3 min of reaction
- Hardly to detect any differences in protein bands mobility
- Kit includes RIPA Lysis Buffer (free amine buffer), MW marker

Simple & Speedy



Detection result



EzLabel FluoroNeo and unlabeled protein molecular marker were separated with SDS-PAGE, then protein bands on gel were visualized by excitation light of UV/Blue LED with 520LP filter, or stained with CBB. The detection level of ***EzLabel FluoroNeo*** is high sensitivity, and any differences in protein bands mobility between unlabeled and labeled protein were hardly detectable.

~ Experimental flow ~

Protein

Change sample buffer to *EzLabel FluoroNeo*

Sample preparation 10min ~

Electrophoresis 30min ~

Gel staining 60min ~ O/N

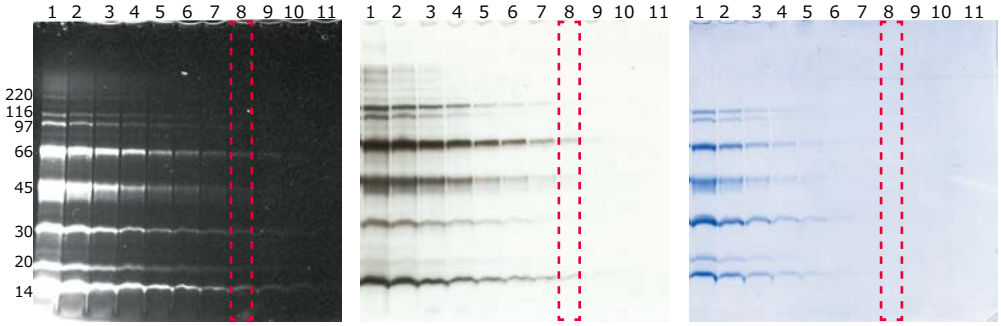
Western blotting
Verify protein transfer efficiency with protein fluorescence

Visualize protein bands **without staining**

ATTO WEBSITE http://www.atto.co.jp

Easier and more convenient experiment with *EzLabel FluoroNeo*

✓ Immediate visualization of the result after running

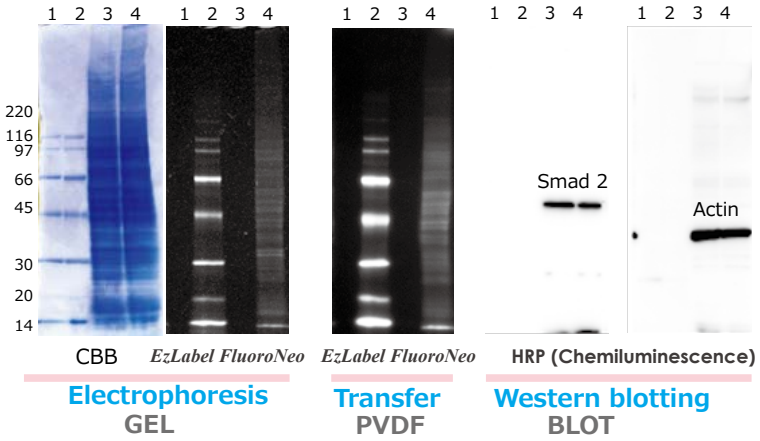


Two-fold dilution of MW marker protein included in the kit (lane1 = 0.4mg/mL) were labeled with ***EzLabel FluoroNeo*** and separated by SDS-PAGE. Fluorescence of protein bands on gel were visualized by Blue LED with 520LP filter. The same gel was stained with CBB and photographed. Then the CBB stained gel was destained, and re-stained with silver staining. The detection sensitivity of ***EzLabel FluoroNeo*** is excellent with broad dynamic ranges, which is the same as that of silver stain.

※ When visualising with UV, the detection sensitivity of ***EzLabel FluoroNeo*** is the same as that of CBB level.

Labeled protein samples are stable in freezer with avoiding light for 3 months

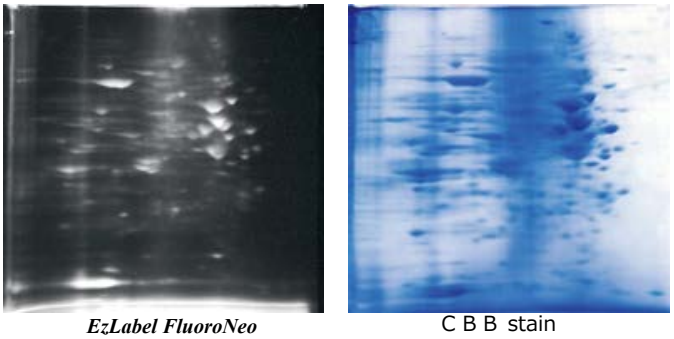
✓ Verify transfer efficiency in western blotting experiment



Cell extract protein was prepared from HepG2 cells with RIPA Lysis buffer povided in the kit. The sample and MW marker were labeled with ***EzLabel FluoroNeo***, and separated by SDS-PAGE. The protein fluorescence on gel was visualized by Blue LED with 520LP filter, and then protein on the same gel was transferred to PVDF membrane. After transferring, the fluorescent of the protein on PVDF membrane was visualized by Blue LED with 520LP filter. The results of western blotting with anti-human SMAD rabbit monochlonal antibody and anti Actin monochlonal antibody were shown. lane 1, 2 ; MW marker, lane 3,4; HepG2 extracts. Lane 1, 3; unlabeled, lane 2, 4; labeled with ***EzLabel Fluoroneo.*** The bands of SMAD2 and actin were detected in the protein sample with or without labeling, which shows that the labeling reaction with ***EzLabel Fluoroneo*** does not interfere western blotting. Thus ***EzLabel Fluoroneo*** enables to rapidly verify the band pattern on gel and the transfer efficiency on blot.

Amine group of protein is labeled with ***EzLabel FluoroNeo***. Please note that since this product labels amino group, in some cases the titer of antibodies may possibly be affected.

✓ Detect protein spots on 2D electrophoresis



After isoelectric forcusing, the 1st dimensional gel was treated with ***EzLabel FluoroNeo***, and separated with the 2nd PAGE. The protein fluorescence on gel was visualized with Blue LED with 520LP filter. Any differences in protein spots pattern by labeling with ***EzLabel FluoroNeo*** were hardly detectable.

Available for conventional isoelectric focusing experimental methods. SDS treatment before the second dimensional electrophoresis would be changed to special labeling reagent.

Specification

	WSE-7010 *EzLabel FluoroNeo*
Compornents	Sample buffer (5x): 12 mL Labeling reagent: 10 mg Reducing agent (DTT): 300 mg MW marker: 200 μL RIPA Lysis buffer: 10 mL
Package	2000 samples (20 μL of one sample)
Applications	1D/2D-PAGE, Western blotting,,,,

For more information, please contact us:

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