

# PVDF Transfer Membrane for Western Blotting





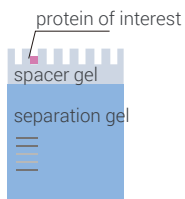
# Protein Electrophoresis and Western Blotting

Western Blotting is a method to analyze and quantify proteins. The protein is separated by gel electrophoresis to a solid phase support (PVDF membrane). Antibodies can generate antigen-antibody immune reactions with the target proteins attached to the PVDF membrane. The western blotting technology is to identify and semi quantitatively analyze a specific protein.

## Procedure of Western Blot

### Gel electrophoresis

1 In the electric field, protein solution is electrophoresed on a gel and proteins with different molecular weights are separated.



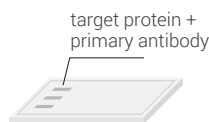
### Western blot

2 In the electric field, proteins are transferred from the gel to the PVDF membrane.

- ① cathode electrode
- ② sponge pad
- ③ filter paper
- ④ gel
- ⑤ PVDF membrane
- ⑥ filter paper
- ⑦ sponge pad
- ⑧ anode electrode

### Blocking

3 Blocking proteins conceal non-specific binding sites on PVDF membranes.

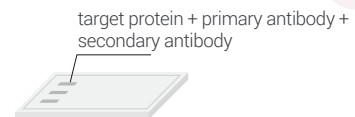


### Incubation of primary antibody

4 Primary antibody specifically binds to target protein.

### Incubation of secondary antibody

5 Secondary antibody coupled with HRP enzyme, specifically binding with primary antibody.



protein coloration

### Visual detection

6 Adding reaction substrate ECL, chemiluminescence detection.

## Immunoblotting Membrane

Cobetter PVDF transfer membranes feature high sensitivity and low background in Western blotting. The PVDF membrane is hydrophobic and needs to be prewetted by methanol. We offer pre-cut membrane sheets as well as coils. And available in 0.45µm for most Western blotting application and 0.2µm for immunoblotting of low MW proteins <20kDa.



### Features

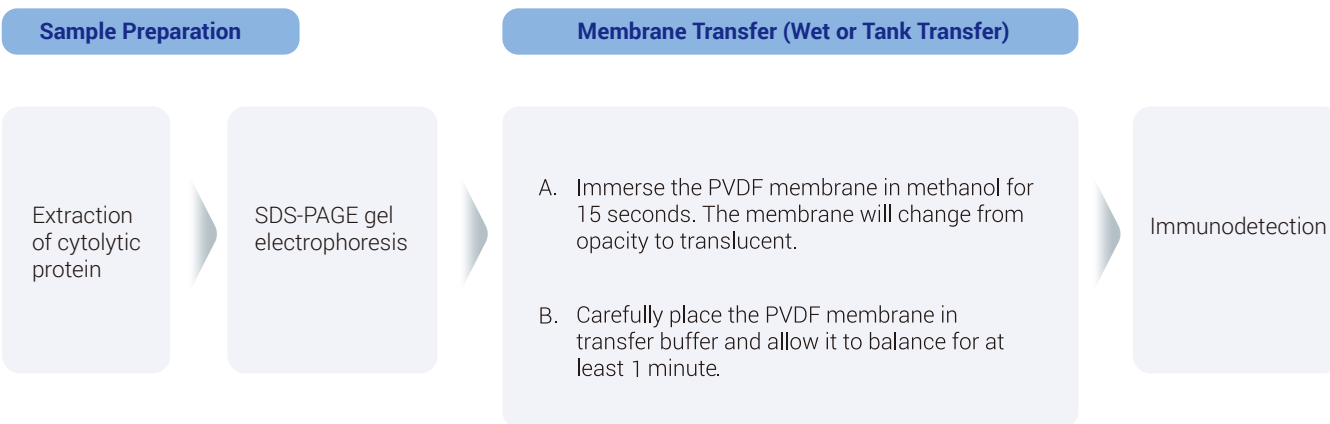
- Smooth and flat surface, won't curl or fracture when cut
- High mechanical strength, easy to be stripped and reprobed multiple times
- High sensitivity and low background

### PVDF Transfer Membrane Performance

Company/Model	Brand M	Cobetter 3550YH	Brand M	Cobetter TS2590H
Membrane	Hydrophobic PVDF	Hydrophobic PVDF	Hydrophobic PVDF	Hydrophobic PVDF
Thickness(µm)	200	130	130	140
Pore Size(µm)	0.2	0.2	0.45	0.45
AARS2 110kDa				
β-Actin 42kDa				
HistoneH3 15kDa				

## Selection Guide of Cobetter PVDF Transfer Membrane

### Western Blot Procedure



### Precautions

- Prevent bubbles from entering into the filter paper, gel or membrane.
- For samples containing small peptides, the equilibrium time of the gel in the transfer buffer should be limited to 10 minutes.
- When the target protein is less than or equal to 20kDa, 0.22 $\mu$ m PVDF membrane can be used to obtain the maximum retention.
- This product is only used for scientific research by professionals, and shall not be used for clinical diagnosis or treatment, food or medicine.
- For your safety and health, please wear lab clothes and disposable gloves.

Part No.	Membrane	Diameter	Pore size	Qty / pk
3550YH-R2703	Hydrophobic PVDF	265mm*3.75m	0.2 $\mu$ m	1 roll
3550YH-F150	Hydrophobic PVDF	150mm*150mm	0.2 $\mu$ m	25pcs
3550YH-F200	Hydrophobic PVDF	200mm*200mm	0.2 $\mu$ m	25pcs
3550YH-F8470	Hydrophobic PVDF	84mm*70mm	0.2 $\mu$ m	50pcs
TS2590H-R2703	Hydrophobic PVDF	265mm*3.75m	0.45 $\mu$ m	1 roll
TS2590H-F150	Hydrophobic PVDF	150mm*150mm	0.45 $\mu$ m	25pcs
TS2590H-F200	Hydrophobic PVDF	200mm*200mm	0.45 $\mu$ m	25pcs
TS2590H-F8470	Hydrophobic PVDF	84mm*70mm	0.45 $\mu$ m	50pcs

\* More sizes can be customized.

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