

EzWay[™] TMB Western Blot Kit

1. Catalog No.	K03351	
2. Quantity	10 mini-blots	
3. Storage	Store at 2-8°C. Do not freeze.	
4. Description	 Specific and accurate colorimetric protein detection using TMB Optimized all reagents supplied for quick and convenient assay High sensitivity and clear background 	
5. Kit Contents	Description25X Transfer Buffer (Tris-Glycine)6X Blocking Solution (3% Casein/PBS)PBS PowderTween-20 (50%)TMB Solution	Amount 100 ml x 2 120 ml x 2 Pouch for 1L x 5 1 ml (50%) x 5 100 ml
6. Materials needed	 Primary antibody and Secondary antibody Transfer membrane (Nitrocellulose, PVDF or Nylon) Deionized water Orbital shaker 	
7. Cautions	 Prepare all reagents as much as you need, because diluted solutions are not stable for longer storage. Each reagent may be sufficient for preparing about 20-30 ml per single assay. Bring all reagents to room temperature prior to use. Complete washing of the membrane after each incubation step is essential to obtain low background values. Individual solution of the kit contains no preservatives except Blocking Solution. Blocking Solution contains 0.01% Sodium Azide for longer storage. Sodium Azide are caustic materials. 	
8. Preparation of Reagents	 Transfer buffer (1X) : Add 1 volume of 25X Transfer Buffer to 19 volumes of D.W. and add 5 volumes of Methanol. Diluent (PBS) : Add 1 pouch of PBS powder to 1L DW and solve it well. Washing solution (PBST) : Add 1 vial (1 ml) of Tween-20(50%) to 1L PBS and mix well. Blocking solution : Add 1 volume of 6X Blocking solution (3% casein/PBS) to 5 volumes of PBS and mix it well. If necessary, it can be slightly heated. Dilution of Primary and secondary antibody : Dilute your primary/secondary antibody in PBS according to the proper dilution factor. Or use PBST (Washing solution) or Blocking solution instead of PBS to prevent non-specific binding. 	



9. Procedure

1. Transfer to a membrane

- Perform SDS-PAGE and transfer the gel to a nitrocellulose (or other) membrane.
- 2. Rinsing
 - Rinse the membrane with DW.
 - If desired, the membrane may be stained with Ponceau S to visualize protein bands to
 - confirm the protein transfer before antibody binding and detection process.
- 3. Blocking
 - Incubate the membrane in Blocking Solution for 1 hour at room temperature or
 - at 37°C (or overnight at 4°C) with slight agitation.
- 4. Washing
 - All washing step is the same but time can be changed if necessary.
 - Rinse the membrane with Washing Solution for 3-5 minutes each, repeating 3 times.
 - After the last wash, it is recommended to rinse the membrane with DW.

5. Reacting with Primary Antibody

- Incubate the membrane in the primary antibody solution for 1 hour at room temperature or at 37°C with slight agitation.
- 6. Washing (Repeat step 4)
- 7. Reacting with Secondary Antibody
 - Incubate the membrane in the secondary antibody solution for 1 hour at room temperature or at 37°C with slight agitation.
- 8. Washing (Repeat step 4)
- 9. Color Reaction
 - Incubate the membrane in the 10 ml of TMB solution for several minutes at room temperature or at 37°C.
 - After sufficient color development, wash the membrane with DW in order to stop the color reaction