

## PRODUCT DATA SHEET

**Product Name** Western Block

**Product Code** #AP0500 125 125 ml  
#AP0500 500 500 ml

### Why Western Block?

This is a specialized solution for blocking free binding sites in Western blots on PVDF, or various types of nitrocellulose membrane. It does not contain large proteins, including serum proteins, BSA, cow milk proteins; low-molecular weight blocking components of this blocking solution do not cause non-specific binding of antibodies to blocking ingredients, while effectively prevent non-specific interactions of test antibody with membrane and transferred proteins on the blot. They also do not prevent (sterically) recognition of the target proteins on the blot due to the size. The buffer is an excellent alternative to self-made skim milk solutions, more effective and improves the signal to noise ratio.

### Stability and Storage

The preparation is stable for 12 months when stored at +2-8°C. Every lot is issued with a certificate indicating the expiry date. Contains ProClin® 300 as a preservative.

### Certification

Each lot is certified for compliance to specifications. The product is produced under DIN EN ISO 9001 :2008 Quality Management system for the products in Immunoassay Development and Measurement, Products for Bioanalytics and Immunoassays.

### How to Use for Blocking of membranes

1. After the transfer of proteins to PVDF, Nitrocellulose or other immunoblot membrane, rinse it 3 times (every time for at least 1 minute) in a wash buffer free of detergents, i.e. PBS
2. Incubate membrane in WesternBlock™ at room temperature for 1-4 hours or overnight at +4-8°C. Use approximately 0.3-0.5 ml of buffer for each square cm of the membrane. Time of blocking depends on characteristics of used membrane and has to be tested individually.
3. Wash membrane 3 times in a wash buffer containing a non-ionic detergent, e.g. Washing Buffer W, order number APO502.

4. Add primary antibody for detection and continue incubation and detection. We highly recommend for the best result using Antibody Diluent W (#AP0501) for diluting the primary antibody. Background and nonspecific binding can not only occur at surfaces, but also between antibodies and components of the specimen. In this case only an assay buffer, which is used in the immunological detection reaction, can lead to satisfactory results. Antibody Diluent W acts as a filter for binding, which doesn't affect the high affinity binding in any way, but depletes nonspecific binding and interference like matrix effects and cross reactivities.