BioVision
BioVision Incorporated

Block-Free ELISA Reagent

01/19

(Cat No. M4102-50, -250; 50, 250 ml, Store at 4°C)

I. Introduction:

Enzyme-linked immunosorbent assay (ELISA) is widely used to measure the concentration of various analytes in biological samples. However, this assay can be time consuming as it involves multiple steps including coating, blocking, antigen/antibody binding incubation, as well as washing between each step. Among all procedures, blocking step is very important to reduce non-specific binding and improve signal/noise (S/N) ratio. BioVision's Block-Free ELISA Reagent is a superior primary and secondary antibody diluent, eliminating the blocking step and saving time while ensuring low background. This reagent contains 1% BSA. For the customer who wants to avoid use of BSA, the Protein free version (BV M4101) is recommended.

II. Applications:

Superior antibody diluent to skip blocking steps after ELISA plate coating procedure in ELISA based immunoassay.

III. Storage Condition:

Store at 4°C. Block-free ELISA reagent is stable for 12 months

IV. Protocol

1. Coat the ELISA plate with antigen or antibody. Wash away excess unbound antigen or antibody. **NO NEED TO BLOCK**.
2. Dilute primary antibody in Block-free ELISA Reagent and incubate the plate for 1hr at RT.
3. Wash the plate with wash buffer of your own choice 3 times.
4. Dilute secondary antibody in Block-free ELISA Reagent and incubate the plate for 1hr at RT.
5. Wash the plate with wash buffer of your own choice 3 times.
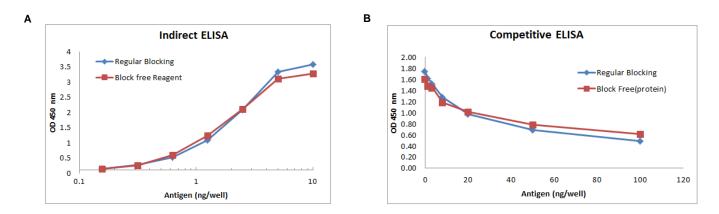6. Proceed with detection procedure.

A

B

Figure A) An indirect ELISA standard curve using Block Free immunoassay reagent without blocking step (Red) or with regular blocking step (Blue). **B)** A competitive ELISA standard curve using Block Free immunoassay reagent without blocking step (Red) or with regular blocking step (Blue).

V. Related Products:

- Block-Free ELISA Reagent (Protein-free) (M4101)
- TMB, Ultrasensitive (1215)
- TMB, High Kinetics (1216)
- Goat Anti-Mouse IgG (H&L) Biotin (6918)
- Goat Anti-Rabbit IgG (H&L) Biotin (6924)
- EZBlock™ T20 (TBS) Blocking Buffer (2143)

FOR RESEARCH USE ONLY! Not to be used in humans