

## Product Data Sheet

# Mouse IgG Titer ELISA Kit

**Catalog number:** ELISA-051-2, ELISA-051-10

### Product Description

This ELISA kit is designed for use in measuring the mouse IgG antibody titers of the serum, plasma, ascites and supernatant samples. It is a peroxidase-based immunodetection system. Provided as ready-to-use reagents, this kit contains all essential reagents required for ELISA procedure, and offers easy-to-use, time-saving and cost-effective benefits. Included reagents are blocking reagent, sample diluent, anti-mouse IgG HRP conjugate, ready-to-use TMB substrate reagent, and washing buffer.

ELISA method is commonly used for determining antibody titers in serum, supernatant and ascites. An antibody titer is normally expressed as the greatest dilution ratio that still gives a positive detection for a particular epitope or antigen. With our sensitive anti-mouse IgG HRP conjugate and TMB solution, this reagents kit offers clean detection and reproducible performance.

### Intended Use

For Research Use Only

### Kit Includes

Cat. No. ELISA-051-2 (sufficient for 2 plates)

- Coating Buffer (Part No. SU-1001 )	24 ml
- Blocking reagents (Part No. SU-1002 )	80 ml
- Sample diluent (Part No. SU-1003 )	80 ml
- Anti-mouse IgG HRP Conjugate (Part No. 5271 )	24 ml
- Wash Buffer (5X) (Part No. SU-1004 )	80 ml
- TMB OneSolution HRP substrate (Part No. TMB-001-C )	24 ml

Cat. No. ELISA-051-10 (sufficient for 10 plates )

- Coating Buffer (Part No. SU-1001 )	120 ml
- Blocking reagents (Part No. SU-1002 )	400 ml
- Sample diluent (Part No. SU-1003 )	400 ml
- Anti-mouse IgG HRP Conjugate (Part No. 5271 )	120 ml
- Wash Buffer (5X) (Part No. SU-1004 )	400 ml
- TMB OneSolution HRP substrate (Part No. TMB-001-C )	120 ml

### Storage and Stability

Store at 2-8 °C, stable for 12 months from the date of shipment.

### Materials required but included in the kit

- Microtiter plates
- 1 N Sulfuric acid or HCl
- Microplate reader

### Procedure for Antibody Titer Measurement

1. For running a duplicate of each test, prepare 1.5 ml of 10 µg/ml antigen (peptide, protein) in coating buffer (each test requires 50 µl of antigen solution for coating each well). The antigen solution is sufficient for 28 wells.
2. Add 50 µl of the antigen solution to each well of microtiter plate.
3. Cover the plate and incubate for 2 hours at room temperature or overnight at 4 C.
4. Remove antigen coating solution, wash 3 times microwell with 300 µl washing buffer for each well each time.
5. Add 400 µl of blocking reagent to each well, incubate for 2 hours at room temperature.
6. During the blocking incubation, prepare sample dilution
7. Prepare a 1:50 dilution of the antiserum by adding 60 µl of the sera into 2940 µl of sample diluent.
8. Perform serial 2-fold dilution: 1:100, 1:200, 1:400, 1:800 ,1:1600 .....1:102400
9. After 2 hours blocking, wash each well twice with 400 µl of washing buffer.
10. Add 100 µl of the antisera dilution to each well, incubate for two hours at room temperature or overnight at 4 C.
11. Remove the antisera, wash each well 3 times with 400 µl of washing buffer for each well.
12. Add 100 µl of anti-mouse IgG HRP conjugate to each well, incubate for 1 hour at room temperature.
13. Remove anti-mouse HRP conjugate, wash each well 3 times with 400 µl of washing buffer.
14. Add 100 µl of TMB OneSolution HRP substrate to each well, incubate 10 minutes, a blue color should be shown in positive detection wells. The degree of blue depends on amount of detected mouse IgG.
15. The reaction may be stopped by addition of 100 µl of 1N sulfuric acid. The blue color product should become yellow color.
16. Read absorbance at 450nm or 405nm for yellow color or at 650nm for the unstopped blue color.