

**For Research Use Only.**  
**Not for use in diagnostic procedures.**



# Anti-mouse IL-33

## (Functional Grade)

**CODE No.** M188-3

**CLONALITY** Monoclonal  
**CLONE** 2C7  
**ISOTYPE** Mouse IgG2a  $\kappa$   
**QUANTITY** 200  $\mu$ L, 1 mg/mL

**SOURCE** Purified IgG from hybridoma supernatant  
**IMMUNOGEN** Mouse IL-33, 109-266 aa (recombinant)  
**FORMURATION** 1 mg/mL in PBS. Azide free, 0.22  $\mu$ m sterile-filtered  
Endotoxin level is <0.5 EU/mg antibody, as determined by the LAL assay  
**STORAGE** This antibody solution is stable for one year from the date of purchase when stored at 4°C.

### APPLICATIONS-CONFIRMED

Western blotting 1  $\mu$ g/mL for chemiluminescence detection system

### APPLICATIONS-REPORTED

Neutralization Reference 1)

### SPECIES CROSS REACTIVITY on WB

| Species    | Human        | Mouse        | Rat        | Hamster    |
|------------|--------------|--------------|------------|------------|
| Cells      | Transfectant | Transfectant | Not tested | Not Tested |
| Reactivity | -            | +            |            |            |

**Entrez Gene ID** 77125 (Mouse)

### REFERENCES

- 1) Ohno, T., *et al.*, *PLoS One* **6**, e18404 (2011) [Neutralization]
- 2) Matsuyama, Y., *et al.*, *J. Rheumatol.* **37**, 18-25 (2010)
- 3) Smith, D. E., *et al.*, *Clin. Exp. Allergy* **40**, 200-208 (2010)
- 4) Cayrol, C. and Girard, J. P., *PNAS.* **106**, 9021-9026 (2009)
- 5) Luthi, A. U., *et al.*, *Immunity* **31**, 84-98 (2009)
- 6) Schmitz, J., *et al.*, *Immunity* **23**, 479-490 (2005)

For more information, please visit our web site <https://ruo.mbl.co.jp/>

## **RELATED PRODUCTS**

### Antibody

M187-3 anti-Mouse IL-33 (1F11) [WB, Nu]  
M161-3 anti-Mouse IL-33 (4G4) [WB, IP]  
M138-3 anti-Human IL-33 (5H1) [WB, IP]  
PM033 anti-Human IL-33 (polyclonal) [WB, IHC]

D065-3 anti-Human ST2 (HB12) [WB, IP, FCM, IHC]  
D066-3 anti-Human ST2 (FB9) [WB, IP, FCM, ELISA]  
D067-3 anti-Human ST2 (2A5) [WB, IP, FCM]  
D067-4 anti-Human ST2-FITC (2A5)  
D067-5 anti-Human ST2-PE (2A5)

### Isotype control antibody

M075-3M2 Mouse IgG1 isotype control (2E12) [FCM, FA]  
M076-3M2 Mouse IgG2a isotype control(6H3) [FCM, FA]

### ELISA Kit

7650 Human IL-33 Cytokine domain Detection Kit  
5332 Ab-Match ASSEMBLY mouse IL-33 ELISA

7638 ST2 ELISA kit

### Recombinant Protein

B005-10 Human IL-33

### Others

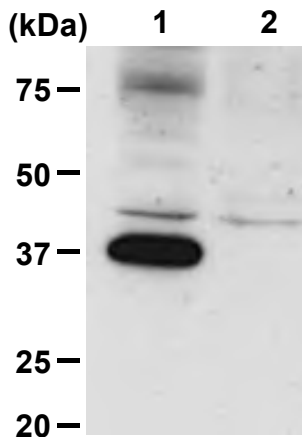
8455 MaxBlot

WB: Western blotting  
IP: Immunoprecipitation  
IHC: Immunohistochemistry  
FCM: Flow cytometry  
Nu: Neutralization  
FA: Functional Analysis

**SDS-PAGE & Western blotting**

- 1) Wash  $1 \times 10^7$  cells 3 times with PBS and suspends them in 1 mL of Laemmli's sample buffer, then sonicate briefly (up to 10 seconds).
- 2) Boil the samples for 3 minutes and centrifuge. Load 10  $\mu$ L of the sample per lane in a 1-mm-thick SDS-polyacrylamide gel (12.5% acrylamide) for electrophoresis.
- 3) Blot the protein to a polyvinylidene difluoride (PVDF) membrane at 1 mA/cm<sup>2</sup> for 1 hour in a semi-dry transfer system (Transfer Buffer: 25 mM Tris, 190 mM glycine, 20% MeOH). See the manufacturer's manual for precise transfer procedure.
- 4) To reduce nonspecific binding, soak the membrane in 10% skimmed milk (in PBS, pH 7.2) for overnight at 4°C.
- 5) Wash the membrane with PBS-T [0.05% Tween-20 in PBS] (5 minutes x 3 times).
- 6) Incubate the membrane with primary antibody diluted with MaxBlot Solution 1 (MBL; code no. 8455) as suggested in the **APPLICATIONS** for 1 hour at room temperature. (The concentration of antibody will depend on the conditions.)
- 7) Wash the membrane with PBS-T (5 minutes x 3 times).
- 8) Incubate the membrane with the 1:10,000 HRP-conjugated anti-mouse IgG (MBL; code no. 330) diluted with 1% skimmed milk (in PBS, pH 7.2) for 1 hour at room temperature.
- 9) Wash the membrane with PBS-T (5 minutes x 3 times).
- 10) Wipe excess buffer on the membrane, and then incubate it with appropriate chemiluminescence reagent for 1 minute. Remove extra reagent from the membrane by dabbing with paper towel, and seal it in plastic wrap.
- 11) Expose to an X-ray film in a dark room for 2 minutes. Develop the film as usual. The condition for exposure and development may vary.

(Positive control for Western blotting; mouse IL-33 transfectant)



***Western blot analysis of mouse IL-33***

Lane 1: mouse IL-33/293T

Lane 2: 293T

Immunoblotted with M188-3 in MaxBlot solution 1