

Rabbit Polyclonal Antibody to Mouse IL-1F6 (Antigen Affinity Purified)



Sino Biological Inc.
Biological Solution Specialist

Catalog Number: 50095-RP02

| General Information | |
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| Immunogen: | Recombinant Mouse IL-1F6 protein (Catalog#50095-HNAE) |
| Ig Type: | Rabbit IgG |
| Applications: | WB, ELISA |
| Specificity: | Mouse IL-1F6 |
| Formulation: | 0.2 µm filtered solution in PBS with 5% trehalose |
| Storage: | < -20° C |

Preparation

Produced in rabbits immunized with purified, recombinant Mouse IL-1F6 (rM IL-1F6; Catalog#50095-HNAE; Q9JLA2-1; Met 1-His 160). IL-1F6 specific IgG was purified by Mouse IL-1F6 affinity chromatography.

Applications

Western blot – This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Mouse IL1F6 in WB. Using a DAB detection system, the detection limit for Mouse IL1F6 is approximately 1 ng/lane under non-reducing conditions and 0.5 ng/lane under reducing conditions.

Direct ELISA – This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Mouse IL1F6. The detection limit for Mouse IL1F6 is approximately 0.00975 ng/well.

Storage

This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -70°C. **Preservative-Free.**

Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. **Avoid repeated freeze-thaw cycles.**

Background

Interleukin-1 family member 6, also known as IL-1F6, FIL1 epsilon, Interleukin-1 epsilon, IL-1 epsilon, IL1F6 and FIL1E, is a secreted protein which belongs to the IL-1 family. IL-1F6 is a new IL-1 family member. IL1F6 / FIL1E is expressed in immune system, fetal brain and adipose tissue and that IL-1F6 and IL-1F8 are involved in the regulation of adipose tissue gene expression. Importantly, IL-1F6 inhibits PPAR γ expression which may lead to reduced adipocyte differentiation suggesting metabolic effects of this cytokine. IL1F6 / FIL1E, along with IL-36 β / IL-1F8 and IL-36 γ / IL-1F9, has been shown to act as an agonist by activating the pathway involving NF- κ B and MAPK in an IL-1 Rrp2 dependent manner. IL1F6 / FIL1E may signal in a similar fashion to IL-1 and IL-18 in having a binding receptor which upon ligation, recruits a second receptor as a signaling component, forming an active heterodimeric receptor complex.

Reference

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4. Blumberg H. et al., 2007, J Exp Med. 204 (11): 2603-14.
5. Dinarello C. et al., 2010, Nat Immunol. 11: 973.

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