28820 Single Oak Drive • Temecula, CA 92590
Technical Support: T: 800 437-7500 • F: 800 437-7502
email: techserv@upstate.com
www.upstate.com

Certificate of Analysis

Anti-IL-1 beta

(Rabbit monoclonal IgG)
Catalog # 04-462
Lot # 0611046366

Immunogen: KLH-conjugated recombinant human IL-1 beta.

Specificity: Recognizes recombinant human IL-1 beta.

Molecular Weight: 17 kDa.

Species Cross-reactivity: Reacts with Human.

Formulation: 100 µL of rabbit monoclonal IgG in 60% storage buffer (50 mM Tris-Glycine (pH 7.4), 0.15 M NaCl, 0.01% sodium azide and 0.05% BSA) and 40% glycerol.

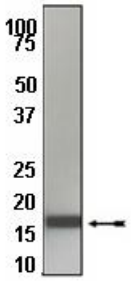
Storage and Stability: Stable for 2 years at -20°C from date of shipment.

Handling Recommendations: Upon first thaw, and prior to removing the cap, centrifuge the vial and gently mix the solution. Aliquot into microcentrifuge tubes and store at -20°C. **Avoid repeated freeze/ thaw cycles, which may damage IgG and affect product performance.** Note: Variability in freezer temperatures below -20°C may cause glycerol-containing solutions to become frozen during storage.

FOR RESEARCH USE ONLY
NOT FOR USE IN HUMANS

Quality Control Testing

Immunoblot Analysis: A 1:20,000 dilution of the lot detected approx 0.05ug/lane recombinant protein. Arrow indicates the IL-1 beta (17kDa)



General References:
March, C J, *et al*. Cloning, sequence and expression of two distinct human interleukin-1 complementary DNAs. *Nature* **315**: 641-647.

Dinarello, C A (1996). Biologic basis for interleukin-1 in disease. *Blood* **87**: 2095-147.

Yuan, J, *et al* (1993). The C. elegans cell death gene ced-3 encodes a protein similar to mammalian interleukin-1 beta-converting enzyme. *Cell* **75**: 641-652.

Immunoblot Protocol

1. Perform SDS-polyacrylamide gel electrophoresis (SDS-PAGE) recombinant MIP-1 beta/CCL4 (C-term) and transfer the proteins to nitrocellulose. Wash the blotted nitrocellulose twice with TBST.
2. Block the blotted nitrocellulose in freshly prepared 5% BSA in TBS with 0.05% Tween®-20 for 1 hour at room temperature with constant agitation.
3. Incubate the nitrocellulose with 1:20,000 dilution of **anti-IL-1 beta** diluted in freshly prepared 5% BSA in TBST for 2 hours at room temperature or overnight with agitation at 4°C.
4. Wash the nitrocellulose 3 times with TBST.
5. Incubate the nitrocellulose in the secondary reagent of choice (a goat anti-rabbit HRP conjugated IgG, in TBST/5% BSA for 1 hour with agitation at room temperature.
6. Wash the nitrocellulose 3-5 times with TBST.
7. Use detection method of choice (enhanced chemiluminescence was used).