



Rabbit IL-1 β Polyclonal Antibody

Antigen-affinity purified goat anti-Rabbit IL-1 β antibody
Catalog Number: GR180001

Background

Interleukin-1 beta (IL-1 β) also known as catabolin, is a member of the interleukin 1 cytokine family. IL-1 β precursor is cleaved by caspase 1 (interleukin 1 beta convertase). Cytosolic thiol protease cleaves the product to form mature IL-1 β . Interleukin-1 alpha and interleukin-1 beta forms IL-1 (1,2,3). IL-1 β is produced by activated macrophages as a proprotein, which is proteolytically processed to its active form by caspase 1 (CASP1/ICE). This cytokine is an important mediator of the inflammatory response, and is involved in a variety of cellular activities, including cell proliferation, differentiation, and apoptosis. The induction of cyclooxygenase-2 (PTGS2/COX2) by this cytokine in the central nervous system (CNS) is found to contribute to inflammatory pain hypersensitivity. IL-1 β gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2.

References

1. Auron PE, et al (1984). Proc Natl Acad Sci U S A 81 (24): 7907–11.
2. March CJ, et al. (1985). Nature 315 (6021): 641–7.
3. Clark BD, et al (1986). Nucleic Acids Res 14 (20): 7897–1914.



Rabbit IL-1 β Polyclonal Antibody

Antigen-affinity purified goat anti-Rabbit IL-1 β antibody
Catalog Number: GR180001

Description

Size: 100 μ g

Species reactivity: Rabbit

Specificity: Rabbit IL-1 β .

Source: Polyclonal Goat IgG

Purification: Antigen-affinity purified

Immunogen: *E. coli* derived recombinant Rabbit IL-1 β , Met1-Ser268

Accession # NP_001075670.1

Endotoxin Level: <0.30 EU per 1 μ g of the antibody by the LAL method.

Formulation: Lyophilized from PBS with 5% Trehalose.

Application

Recommended concentration:

Western blot-1 μ g/ml

Immunocytochemistry-5-15 μ g/ml

ELISA: 0.5-1.0 μ g/ml

Neutralization: Measured by its ability to neutralize IL-1 β induced proliferation in the D10.G4.1 mouse cell line. The Neutralization Dose (ND₅₀) is typically 0.2-0.5 μ g/mL in the presence of 100 pg/mL recombinant Rabbit IL-1 β .

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 6 months from date of receipt, -20°C to -70°C, reconstituted.

DECLARATION

THIS REAGENT IS FOR IN VITRO LABORATORY TESTING AND RESEARCH USE ONLY. DO NOT USE IT FOR CLINICAL DIAGNOSTICS. DO NOT USE OR INJECT IT IN HUMANS AND ANIMALS.

**FOR LABORATORY RESEARCH USE ONLY
NOT FOR USE IN HUMANS AND ANIMALS**