

Biotinylated Bovine IL-1ß Polyclonal Antibody

Antigen-affinity purified goat anti-bovine IL-1β antibody Catalog Number: GR109075

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.

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

Related products

- 1. GR238016 50 ml Reagent Reservoir, 100/case, 5 packs/case (pack of 20)
- 2. GR238004 Tissue Culture 96-well Microplate, individually packed, Case of 50
- 3. GR238019 1.5 ml Microcentrifuge tube with screw cap and free-standing, pack of 500
- 4. GR238007 125 ml leak-resistant HDPE bottle, colorless, pack of 24
- 5. GR238002 Microplate 12x8-Well Strip High Binding, Case of 50
- 6. GR238003 Microplate 12x8-Well Strip Medium Binding, Case of 50
- 7. GR238032 42592 Costar Stripwell Microplate 1 x 8 Flat Bottom, High Binding, Case of 100
- 8. GR238001 468667 Thermo Microplate 12x8-Well Strip Nunc Maxixorp F8, Case of 60
- 9. GR238031 96-well microplate sealer plastic, pack of 100



Biotinylated Bovine IL-1ß Polyclonal Antibody

Antigen-affinity purified goat anti-bovine IL-1β antibody Catalog Number: GR109075

Description

Size: 50 μgSpecies reactivity: Bovine, ovineSpecificity: Detects bovine IL-1β in direct ELISA and Western blot, flow cytometry,immunohistochemistry.Source: Polyclonal Goat IgGPurification: Antigen-affinity purifiedImmunogen: E. coli derived recombinant bovine IL-1β, Val21-Lys209, and Accession #NP_001009392.1Endotoxin Level: <0.30 EU per 1 µg of the antibody by the LAL method.</td>Formulation: Lyophilized from PBS with 5% Trehalose.

Application

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.