

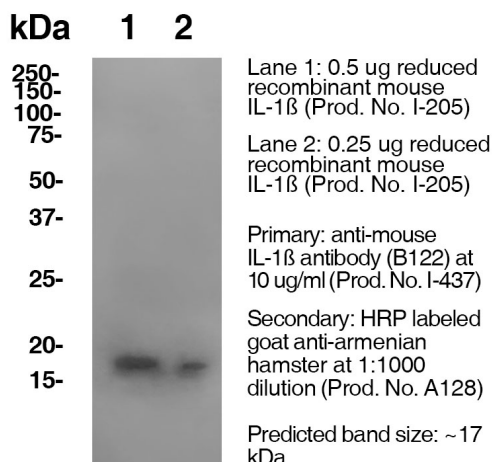
Mouse IL-1 β Antibody

Purified in vivo GOLD™ Functional Grade

Monoclonal Antibody

Product Information

Product No.: I-437
Clone: B122
RRID: AB_2737541
Isotype: Armenian Hamster IgG
Storage: Sterile 2-8°C



Product Description

Specificity:

Armenian Hamster Anti-Mouse IL-1 β (Clone B122) recognizes Mouse IL-1 β . This monoclonal antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype.

Antigen Distribution:

Monocytes, tissue macrophages, Langerhan cells, dendritic cells, T lymphocytes, B lymphocytes, natural killer (NK) cells and many other B cells, T cells, related monocytes

Background:

Interleukin 1 beta (IL1 beta) is a proinflammatory cytokine belonging to IL1 family that is synthesized as a precursor. The IL1 beta precursor form is not biologically active. It is expressed mainly by stimulated macrophages and monocytes.^{1,2} IL1 beta is known to be a mediator in inflammatory response and to be involved in a variety of cellular activities, proliferation, differentiation and apoptosis. It has been recently found that IL1 beta is a major cause of severe inflammation in the mouse model of Crohns disease which makes IL1 beta an important target for this disease.³ The B122 antibody has been reported to neutralize the bioactivity of natural or recombinant IL-1 β .

Known Reactivity Species:

Mouse

Format:

Purified in vivo GOLD™ Functional Grade

Immunogen:

E. coli -expressed, recombinant mouse IL-1 β

Formulation

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.

Purity

≥95% monomer by analytical SEC, >95% by SDS Page

Endotoxin

< 1.0 EU/mg as determined by the LAL method

Storage and Stability

Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at $\leq -70^{\circ}\text{C}$.

Avoid Repeated Freeze Thaw Cycles.

Product Preparation

Functional grade preclinical antibodies are manufactured in an animal free facility using *in vitro* cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.

Country of Origin

USA

References

1. Goldberg, Diamond, et. al (2017); PLoS ONE 12(5): e0177142 [Article Link](#)³
2. Dinarello CA *et al.* (1996) *Blood* 87: 2095
3. Yuan *et al.* (1993) *Cell* 75: 641
4. Shin Maeda *et al.* (2005) *Science* 4: 735