



Mouse Anti-Human IL-15 Monoclonal Antibody Datasheet

Product Name: mAb anti-Human IL-15

Clone No.: B1H6

Catalogue No.: MO-C40095B

Quantity:

Description: Mouse monoclonal antibody to human interleukin-15 (IL-15)

Product Type: Primary antibody, **detection antibody** in matched antibody pair

Purification: Protein G affinity purified

Target Protein: Human IL-15

Immunogen: Purified recombinant human IL-15

Fusion Myeloma: SP2/0

Specificity: Reactive with human IL-15

Species Reactivity: Human, others not tested

Host / Isotype: Mouse, IgG1 Kappa

Formulation: Lyophilized from a solution in 0.01M PBS, pH 7.0

Reconstitution: Double distilled water is recommended to reconstitute the antibody to 1mg/ml

Storage: Store at -20°C

Research Area: Cytokine. Inflammatory diseases

Background: Interleukin (IL)-15 is an inflammatory cytokine that can induce tumor-necrosis factor- α , IL-1 β and inflammatory chemokines. It acts on T cells and natural killer cells through receptors on these cells. IL-15 and IL-2 share common receptor β and γ units (IL-15/IL-2R $\beta\gamma$)

and thus some overlapping functions in stimulating T-cell proliferation and cytokine secretion. However, both cytokines have its own specific receptor α (IL-15R α or IL-2R α) that links to distinct signaling pathways. For example, IL-15 can inhibit self-tolerance mediated by IL-2 mediated activation-induced T cell death, and promote CD8+ memory T-cell survival. Increased IL-15 expression has been reported in patients with psoriasis and other inflammatory autoimmune diseases.

IL-15 exists as soluble form, as well as membrane-bound form in which it could be directly bound to the cellular membrane or presented by IL-15R α receptor. The main mechanism of IL-15 signaling is trans-presentation which is initiated by IL-15 binding to IL-15R α . The IL-15/IL-15R α complex subsequently presents IL-15 to surrounding cells bearing IL-15R $\beta\gamma$ complex on their cell surface.

Recent research showed that combined activation with IL-12, IL-15, and IL-18 can induce memory-like (CIML) natural killer (NK) cells that live longer and exhibit enhanced functionality when they encounter a secondary stimulation. The progress has led to increased interest in using IL-15 for cancer therapy.

Applications: **Sandwich ELISA:** In combination with human IL-15 capture antibody (clone

This product is for LABORATORY RESEARCH USE and further manufacture ONLY, and cannot be administrated to human and animals for use in diagnostic and therapeutic procedures.

Manufactured by ANOGEN - A Division of YES Biotech Laboratories Ltd.



ANOGEN - A Division of YES Biotech Laboratories Ltd.

2355 Derry Road East, Unit 23, Mississauga, ON, Canada L5S 1V6 • Tel: (905) 677-9221 • Fax: (905) 677-0023

5E8, Cat. No.: MO-C40095A), this IL-15 antibody clone B1H6 can be used as detection antibody in Sandwich ELISA application for quantitative measurement of IL-15. The standard curve range is 1000 pg/mL to 15.6 pg/mL.

References: If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

This product is for LABORATORY RESEARCH USE and further manufacture ONLY, and cannot be administered to human and animals for use in diagnostic and therapeutic procedures.

Manufactured by ANOGEN - A Division of YES Biotech Laboratories Ltd.