

**Biotin Labeled Mouse Anti-Human IL-15 Monoclonal Antibody Datasheet****Product Name:** Biotin labeled mAb anti-Human IL-15 **Clone No.:** B1H6**Catalogue No.:** MO-C40095TB**Quantity:****Description:** Mouse monoclonal antibody to human interleukin-15 (IL-15), biotin labeled.**Product Type:** Tracer, **Biotin labeled detection antibody** in matched antibody pair**Purification:** Protein G affinity purified**Target Protein:** Human IL-15**Immunogen:** Purified recombinant human IL-15**Fusion** SP2/0**Myeloma:****Specificity:** Reactive with human IL-15**Species** Human, others not tested**Reactivity:****Host / Isotype:** Mouse, IgG1 Kappa**Formulation:** In 0.01M PBS pH 7.2 with 0.5% gelatin.**Storage:** Store at -20°C, avoid freeze-thaw cycles**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 5E8, Cat. No.: MO-C40095A), this Biotin labeled IL-15 antibody clone B1H6 can be used as detection antibody in

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Sandwich ELISA application for
quantitative measurement of IL-15. The
standard curve range is 1000 pg/mL to
15.6 pg/mL.

References:

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