



Data Sheet

Purified anti-human IL-15 Antibody

Catalog# / Size KT515002 / 500 µg

Clone BH1509

Isotype Mouse IgG1, κ

Description Interleukin-15 (IL-15) was discovered in supernatant from simian kidney epithelial cell line CV-1/EBNA, as a soluble factor capable of supporting proliferation of the IL-2-dependent cell line, CTLL-2. IL-15 is a regulatory cytokine that is produced by dendritic cells, epithelial cells, human stromal cell line (IMTLH), fibroblasts, and monocytes. It plays an important role in immune response and shares many functions with IL-2, for example, it stimulates the proliferation of activated T cells, NK cells and B cells, and it induces immunoglobulin synthesis by B cells stimulated by anti-IgM or CD40 ligand. In addition, IL-15 promotes the development of dendritic cells, activates human neutrophils and induces the production of proinflammatory cytokines from macrophages. IL-15 acts as a bridge between innate and adaptive immunity because of its diverse roles in the immune system. IL-15 binds to heterotrimeric receptors composed of IL-15R α , IL-15R β , and IL-15R γ c. IL-15 shares with IL-2 the receptor chains β and γ c. IL-15 is normally not secreted in soluble form but is held on the cell surface bound to a unique receptor, IL-15R α , especially on dendritic cells. Cell-bound IL-15 then is presented in trans to T cells and NK cells and is recognized by the γ c receptor on these cells; such recognition maintains cell survival and intermittent proliferation.

Product Details

Reactivity Human

Antibody Type Monoclonal

Host Species Mouse

Immunogen E. coli - expressed, recombinant human IL-15

Formulation Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Preparation The antibody was purified by affinity chromatography.

Concentration 0.5 mg/ml

Storage & Handling The antibody solution should be stored undiluted between 2°C and 8°C.

Application ELISA Capture - Quality tested

Recommended Usage

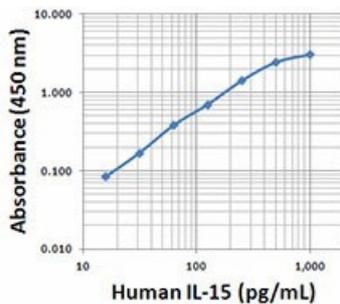
Each lot of this antibody is quality control tested by [ELISA assay](#). For ELISA capture applications, a concentration range of 1-4 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of IL-15 recombinant protein ranging from 500 to 7.8 pg/ml are recommended for each ELISA plate. It is recommended that the reagent be titrated for optimal performance for each application.



Antigen Details

Structure	13 kD single non-glycosylated polypeptide
Distribution	T cells, B cells, dendritic cells, monocytes, and macrophages
Function	IL-15 stimulates the proliferation of activated T cells, NK cells, and B cells, inducing immunoglobulin synthesis by B cells stimulated by anti-IgM or CD40 ligand. In addition, IL-15 promotes the development of dendritic cells, activates human neutrophils, and induces the production of proinflammatory cytokines from macrophages.
Interaction	T lymphocytes, NK cells
Ligand/Receptor	IL-15R α , IL-15R β and IL-15 γ c
Cell Type	T cells, B cells, Dendritic cells, Monocytes, Macrophages
Biology Area	Immunology, Innate Immunity
Molecular Family	Cytokines/Chemokines

Product Data



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