**Catalog #** 3600-MSM6
Product Datasheet

# Interleukin-15 (IL-15) Antibody

Mouse Monoclonal Antibody [Clone IL15/4696]

| Catalog No | Format | Size |
|---|---|---|
| 3600-MSM6-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 3600-MSM6-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 3600-MSM6-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

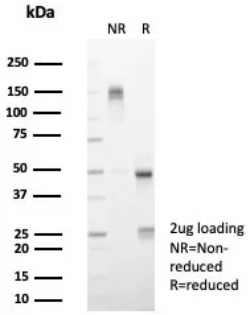
| Applications | Tested Dillution | Note |
|---|---|---|
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |

## Product Details

| | |
|---|---|
| **Clone** | IL15/4696 |
| **Gene Name** | IL15 |
| **Immunogen** | Recombinant fragment of human IL15 (exact sequence is proprietary) |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgG2 / Kappa |
| **Mol. Weight of Antigen** | 14-15kDa |
| **Cellular Localization** | Secreted. Cytoplasm. Nucleus. |
| **Species Reactivity** | Human |
| **Positive Control** | Human placenta\|skeletal muscle or adrenal gland. |

**Optimal dilution for a specific application should be determined.*

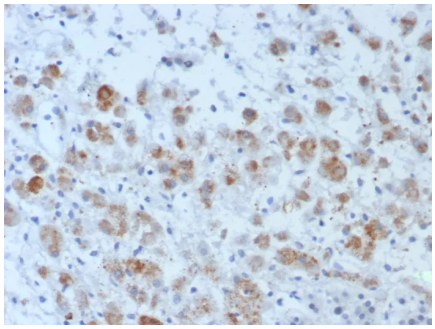
## Product Images for Interleukin-15 (IL-15) Antibody




SDS-PAGE Analysis of Purified IL-15 Mouse Monoclonal Antibody (IL15/4696). Confirmation of Purity and Integrity of Antibody.




Analysis of Protein Array containing >19,000 full-length human proteins using Interleukin-15 (IL-15) Monospecific Mouse Monoclonal Antibody (IL15/4696). Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Formalin-fixed, paraffin-embedded human adrenal gland stained with Interleukin-15(IL-15) Mouse Monoclonal Antibody (IL15/4696). HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.

## Specificity & Comments

Interleukin-15 (IL-15), also designated IL-T, is a cloned cytokine which shares several biological activities but no sequence homology with IL-2. Human, mouse and simian IL-15 cDNA clones have been isolated and characterized. All 3 species encode a 162 amino acid residue precursor protein containing a 48 amino acid leader that is cleaved to generate the mature form of IL-15. IL-15 stimulates the proliferation of T cells and NK cells, while enhancing B cell expansion and antibody production. Unlike IL-2, IL-15 is not produced by lymphocytes, but appears to be produced by macrophages, epithelial lines, muscle and placenta. IL-15 has also been shown to be a chemoattractant for human blood T lymphocytes and to be able to induce lymphokine-activated killer (LAK) activity in NK cells as well as to be able to induce the generation of cytolytic effector cells. Studies have shown that IL-15 is the only other cytokine that shares the ? signaling subunit of the IL-2R. Evidence also suggests that like IL-2, IL-4 and IL-7, IL-15 utilizes the common IL-2R? subunit.

## Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

## Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C.Antibody is stable for 24 months. Non-hazardous. No MSDS required.

## Research Areas

AKT Signaling, Cardiovascular, Cytokine Signaling, Hematopoietic Stem Cells, Immunology, Nuclear Marker

## Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.