# Interleukin-3 (IL-3) Antibody

Mouse Monoclonal Antibody [Clone IL3/4001]

| Catalog No | Format | Size |
|---|---|---|
| 3562-MSM1-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 3562-MSM1-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 3562-MSM1-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

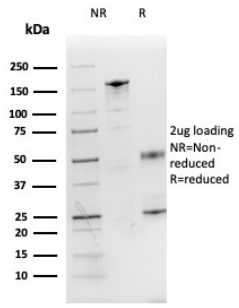
| Applications | Tested Dillution | Note |
|---|---|---|
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |

## Product Details

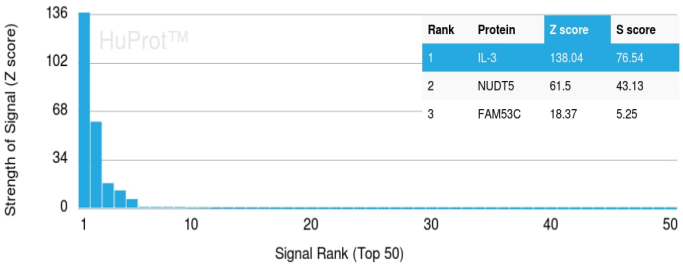
| | |
|---|---|
| **Clone** | IL3/4001 |
| **Gene Name** | IL3 |
| **Immunogen** | Recombinant fragment of human IL3 protein (exact sequence is proprietary) |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgG2b / Kappa |
| **Mol. Weight of Antigen** | 17kDa |
| **Cellular Localization** | Secreted |
| **Species Reactivity** | Human |
| **Positive Control** | Human thymus or tonsil tissue. |

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

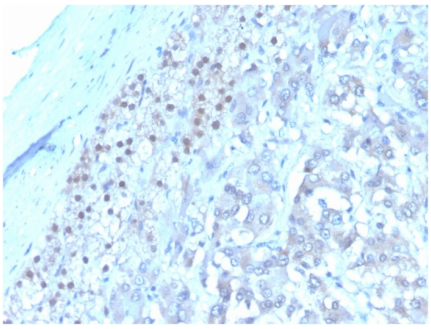
## Product Images for Interleukin-3 (IL-3) Antibody




SDS-PAGE Analysis of Purified Interleukin-3 (IL-3) Mouse Monoclonal Antibody (IL3/4001). Confirmation of Purity and Integrity of Antibody.




Analysis of HuProt™ Protein Array (21,000+ full-length human proteins) with Interleukin-3 Mouse Monoclonal Antibody (IL3/4001). Z-score: Signal strength (in SD above the mean) of antibody binding to each protein. S-score: Difference in Z-scores between the top target and the next best hit, indicating relative specificity. An antibody is considered specific if S ? 2.5. Example: Binding to protein X (Z = 43) vs protein Y (Z = 14) ? S = 29.



Formalin-fixed, paraffin-embedded human adrenalgland stained with Interleukin-3 (IL-3) Mouse Monoclonal Antibody(I L3/4001). HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.

## Specificity & Comments

Interleukin-3, or IL-3, is a pleiotropic cytokine that is primarily secreted by activated T lymphocytes and stimulates the proliferation and differentiation of hematopoietic cells. IL-3 not only supports growth of both pluripotent stem cells and the more differentiated committed progenitors, but it also stimulates the functional activity of some fully differentiated cells. IL-3 has also been shown to protect mast cells from undergoing apoptosis. IL-3 exerts its biological effects through a receptor which consists of a ligand-specific ? subunit and a signal transducing ? subunit common to the IL-3/IL-5/GM-CSF receptors. The carboxy terminus of the ? subunit has been shown to be necessary for activation of the MAP kinase signaling pathway. Although the IL-3 receptor has no intrinsic kinase activity, stimulation with IL-3 leads to tyrosine phosphorylation of the JAK/Tyk 2 family member, JAK2, which in turn activates and causes nuclear translocation of Stat5a and Stat5b.

## Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with0.05% 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, Signal Transduction, Stem Cell Differentiation, Transcription Factors

## 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.