

## Interleukin-5 (IL-5) Antibody

Mouse Monoclonal Antibody [Clone IL5/4161]

| Catalog No      | Format  | Size   |
|-----------------|---|--------|
| 3567-MSM1-P0    | Purified Ab with BSA and Azide at 200ug/ml    | 20 ug  |
| 3567-MSM1-P1    | Purified Ab with BSA and Azide at 200ug/ml    | 100 ug |
| 3567-MSM1-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

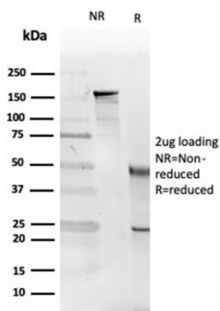
| Applications               | Tested Dillution    | Note  |
|----------------------------|---------------------|---|
| Flow Cytometry (Flow)      | 1-2ug/million cells |   |
| Immunohistochemistry (IHC) | 1-2ug/ml            | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue 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

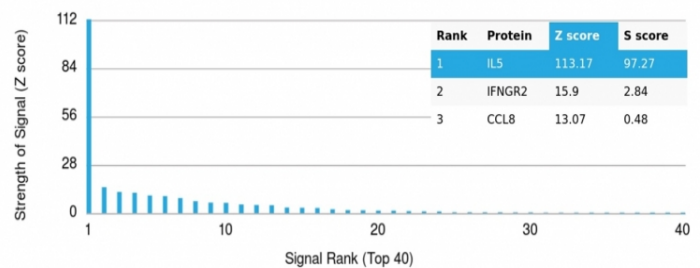
|                               |   |
|-------------------------------|---|
| <b>Clone</b>                  | IL5/4161  |
| <b>Gene Name</b>              | IL5   |
| <b>Immunogen</b>              | Recombinant fragment of human IL5 protein corresponding to the mature protein (exact sequence is proprietary) |
| <b>Host</b>                   | Mouse   |
| <b>Clonality</b>              | Monoclonal  |
| <b>Isotype / Light Chain</b>  | IgG2b / Kappa   |
| <b>Mol. Weight of Antigen</b> | 17kDa   |
| <b>Cellular Localization</b>  | Secreted  |
| <b>Species Reactivity</b>     | Human   |
| <b>Positive Control</b>       | Human thymus or tonsil tissue.  |

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

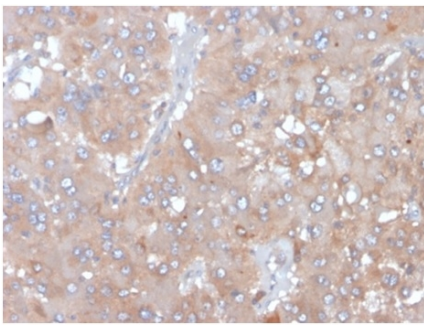
### Product Images for Interleukin-5 (IL-5) Antibody



SDS-PAGE Analysis of Purified Interleukin-5 (IL-5) Mouse Monoclonal Antibody (IL5/4161). Confirmation of Purity and Integrity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteins using Interleukin-5 (IL-5) Monospecific Mouse Monoclonal Antibody (IL5/4161). 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 HuProt™ 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 HuProt™ 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 be 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-5 (IL-5) Mouse Monoclonal Antibody (IL5/4161). HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.

### Specificity & Comments

Interleukin-5, or IL-5, was originally discovered as a soluble T cell-derived factor, called T cell-replacing factor (TRF), that induced T cell-depleted activated B cells to secrete immunoglobulin. Native IL-5 is a disulfide-linked homodimer. IL-5 is initially synthesized as a precursor with a 19 amino acid signal peptide which is cleaved to form a 112 amino acid mature protein. Murine and human IL-5 exhibit 70% sequence identity at the amino acid level. IL-5 exerts its biological activity through the IL-5 receptor (IL-5R), which is composed of at least two chains: an chain that binds IL-5 with low affinity and a chain that does not bind IL-5, but together with the IL-5 a chain, constitutes the high affinity IL-5 receptor. The chain is common to the IL-3, IL-5 and GM-CSF receptors and has been shown to signal through the JAK/Stat pathway.

### 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.

### 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, Signal Transduction