

Anti-IL-3 Antibody [IL3/4004] (A277669)

Specifications:

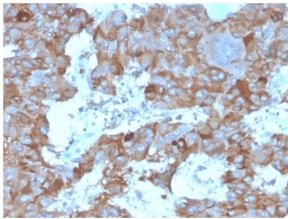
Name:	Anti-IL-3 Antibody [IL3/4004]
Description:	Mouse monoclonal [IL3/4004] antibody to IL-3.
Specificity:	Interleukin-3, or IL-3, is a pleiotropic cytokine that is primarily secreted by activated T lymphocytes and stimulates the proliferation and differentiation of hematopoietic cells. IL-3 not only 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 $\hat{1}\pm$ subunit and a signal transducing $\hat{1}^2$ subunit common to the IL-3/IL-5/GM-CSF receptors. The carboxy terminus of the $\hat{1}^2$ 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.
Applications:	IHC-P
Recommended Dilutions:	IHC-P: 1-2 $\mu\text{g/ml}$
Reactivity:	Human
Immunogen:	Recombinant fragment corresponding to human IL-3 protein. The exact sequence is proprietary.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	IL3/4004
Isotype:	IgG1
Light Chains:	kappa
Conjugate:	Unconjugated
Purification:	Protein A/G chromatography.
Concentration:	200 $\mu\text{g/ml}$
Product Form:	Liquid
Formulation:	Supplied in 10mM Phosphate Buffered Saline with 0.05% BSA and 0.05% Sodium Azide.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

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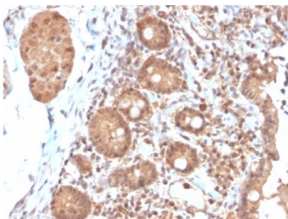
Specifications continued:

General Notes:	This monoclonal antibody is also available in a different formulation without BSA and Sodium Azide - Anti-IL-3 Antibody [IL3/4004] - BSA and Azide free (A278257).
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

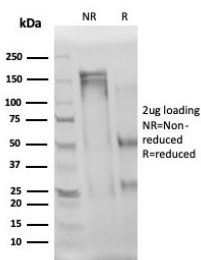
Images:



Immunohistochemical analysis of formalin-fixed, paraffin-embedded human adrenal gland tissue using Anti-IL-3 Antibody [IL3/4004].



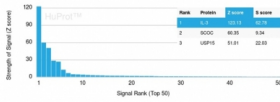
Immunohistochemical analysis of formalin-fixed, paraffin-embedded human colon carcinoma tissue using Anti-IL-3 Antibody [IL3/4004].



SDS-PAGE analysis of Anti-IL-3 Antibody [IL3/4004] under non-reduced and reduced conditions; showing intact IgG and intact heavy and light chains, respectively. SDS-PAGE analysis confirms the integrity and purity of the antibody.

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Images continued:



Analysis of protein array containing more than 19,000 full-length human proteins using Anti-IL-3 Antibody [IL3/4004]. Z-Score 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.