Product Datasheet

Interleukin 5 Antibody / IL5 (orb2635396)

Catalog Number	orb2635396
Description	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.
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	IHC-P
Immunogen	A recombinant fragment of human IL5 protein corresponding to the mature protein sequence was used as the immunogen for the Interleukin 5 antibody.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Application notes	Optimal dilution of the Interleukin 5 antibody should be determined by the researcher.
Formula	1 mg/ml in 1X PBS; BSA free, sodium azide free
Isotype	Mouse IgG2b, kappa

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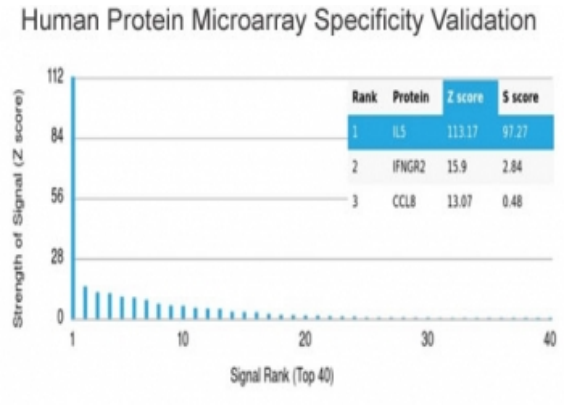
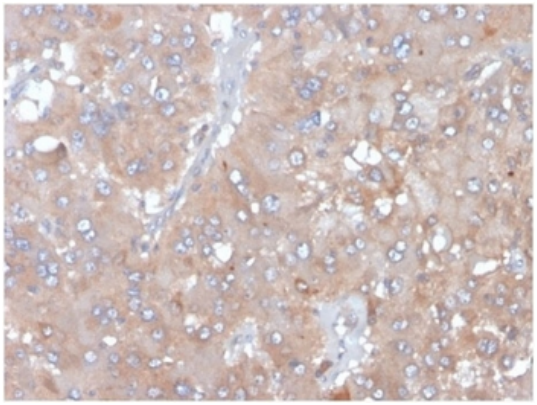
Clonality	Monoclonal
Clone Number	IL5/4161
Antibody Type	Primary Antibody
Uniprot ID	**P05113**
Hazard Information	This Interleukin 5 antibody is available for research use only.
Dilution Range	Immunohistochemistry (FFPE): 1-2ug/ml
Expiration Date	12 months from date of receipt.



Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using Interleukin 5 antibody (clone IL5/4161). These results demonstrate the foremost specificity of the IL5/4161 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



IHC staining of FFPE human adrenal gland tissue with Interleukin 5 antibody (clone IL5/4161). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

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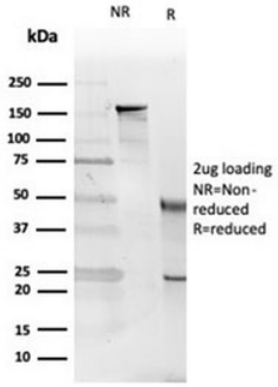

SDS-PAGE analysis of purified, BSA-free Interleukin 5 antibody (clone IL5/4161) as confirmation of integrity and purity.

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