

Product Datasheet

Interleukin 5 Antibody / IL5 (orb2635397)

Catalog Number	orb2635397
Category	Antibodies
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.
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG2b, kappa
Conjugation	Unconjugated
Reactivity	Human
Immunogen	A recombinant fragment of human IL5 protein corresponding to the mature protein sequence was used as the immunogen for the Interleukin 5 antibody.
UniProt ID	P05113
Tested applications	IHC-P
Dilution range	Immunohistochemistry (FFPE): 1-2ug/ml
Application notes	Optimal dilution of the Interleukin 5 antibody should be determined by the researcher.

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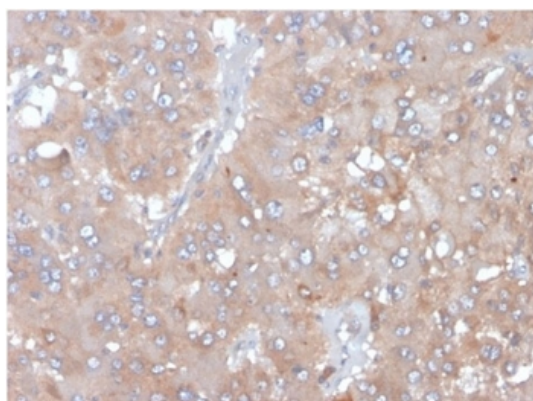
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Antibody Type	Primary Antibody
Clone Number	IL5/4161
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only

Human Protein Microarray Specificity Validation



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.



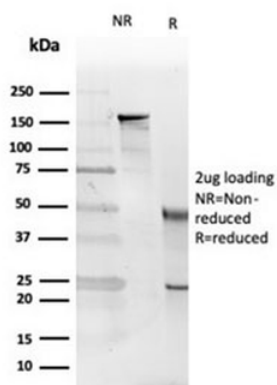
IHC staining of FFPE human adrenal gland tissue with Interleukin 5 antibody (clone IL5/4161). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

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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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