Catalog # 3572-MSM1
Product Datasheet

IL6ST / CD130 / Interleukin 6 Signal Transducer / IL6RB Antibody

Mouse Monoclonal Antibody [Clone IL6ST/4101]

Catalog No	Format	Size
3572-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
3572-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
3572-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

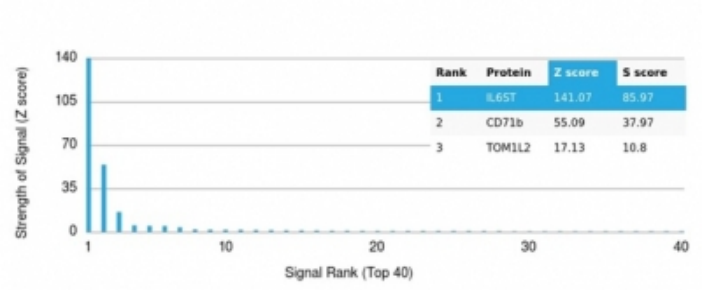
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

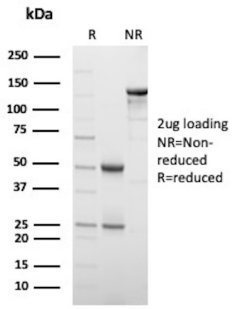
Clone	IL6ST/4101
Gene Name	IL6ST
Immunogen	Recombinant fragment of human IL6ST protein corresponding to extracellular domain(exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	103kDa
Cellular Localization	Cell membrane, Secreted
Species Reactivity	Human
Positive Control	Human thymus or tonsil tissue.

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

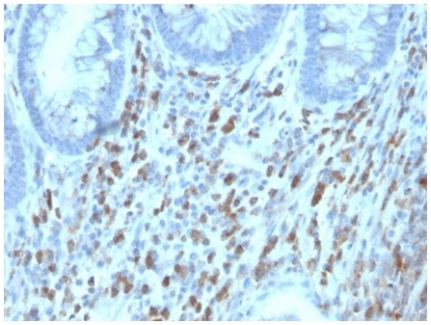
Product Images for IL6ST / CD130 / Interleukin 6 Signal Transducer / IL6RB Antibody



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing IL6RB / IL6ST Monospecific Mouse Monoclonal Antibody (IL6ST/4101). 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 HuProtTM 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 HuProtTM 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.



SDS-PAGE Analysis of PurifiedInterleukin 6 Signal Transducer Mouse Monoclonal Antibody(IL6ST/4101). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human adrenalgland stained with IL6RB / CD130 Mouse Monoclonal Antibody (IL6ST/4101). 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.

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

Cardiovascular, Cytokine Signaling, Immunology, Neuroinflammation, Signal Transduction

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.