IL-6 (Interleukin-6) / Interferon beta-2 (Hybridoma Growth Factor) Antibody

Mouse Monoclonal Antibody [Clone IL6/4647]

Catalog No	Format	Size
3569-MSM7-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
3569-MSM7-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
3569-MSM7-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

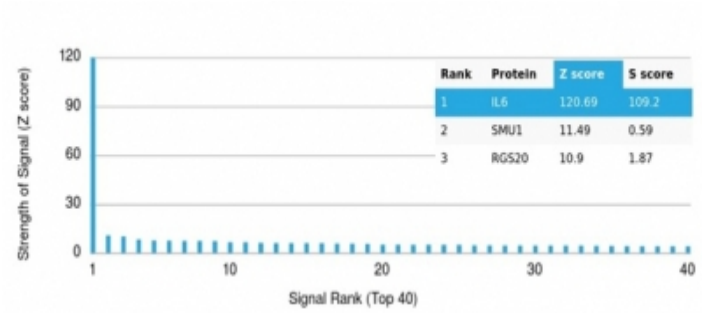
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

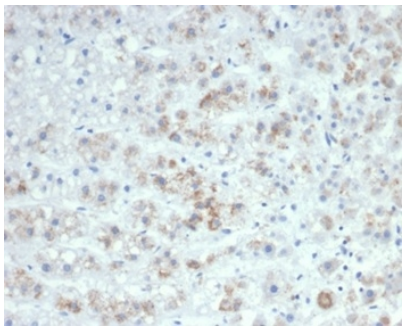
Clone	IL6/4647
Gene Name	IL-6
Immunogen	Recombinant fragment (around aa1-200) of human IL-6 protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	21kDa
Cellular Localization	Secreted
Species Reactivity	Human
Positive Control	Human heart or adrenal gland. Stimulated peritoneal macrophages.

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

Product Images for IL-6 (Interleukin-6) / Interferon beta-2 (Hybridoma Growth Factor) Antibody



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing IL-6-Monospecific Mouse Monoclonal Antibody (IL6/4647). 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 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 IL-6 Mouse Monoclonal Antibody (IL6/4647) at 2ug/ml. HIER: Tris/EDTA, pH9.0, 45min. 2 °: HRP-polymer, 30min. DAB, 5min.

Specificity & Comments

IL-6 is a potent lymphoid cell growth factor that stimulates the growth and survivability of certain B-cells and T-cells. It plays a critical role in B-cell differentiation to plasma cells and is a potent growth factor for plasmacytoma and myeloma. IL-6 is produced by a variety of cell types, including monocytes, fibroblasts and endothelial cells. Upon stimulation, macrophages, T, B, mast, and glial cells, eosinophils, keratinocytes and granulocytes also secrete IL-6.It is involved in host defense, acute phase reactions, immune responses, and hematopoiesis.

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

Cardiovascular, Immunology, AKT Signaling, Colon Cancer, Cytokine Signaling, Dendritic Cell Marker, Hematopoietic Stem Cells, Infectious Disease, Mesenchymal Stem Cell Differentiation, Neuroinflammation, Signal Transduction, Stem Cell Differentiation, Transcription Factors

Limitations and Warranty