

**MONOCLONAL ANTIBODY TO
MOUSE INTERLEUKIN 6
Clone MP5-32C11**



Catalog nr	HM1005-05 (lot number and expiry date are indicated on the label)
Description	The antibody neutralizes specific mouse interleukin 6 (IL-6). It does not cross-react with LPS (the component of the bacterial cell wall which is considered responsible for the toxicity of gram-negative bacteria) and TNF-alpha nor does it block human or rat IL-6 in proliferation assays using the KD83 cell line. MP5-32C11 inhibits mouse IL-6-induced proliferation of the NFS60 myelomonocytic cell line and KD83 plasmacytoma. IL-6 is a pluripotent 20-22 kDa cytokine which plays a role in the pathophysiology of severe infection and regulates the immune response, acute phase reaction and haematopoiesis. IL-6 plays a critical role in B-cell differentiation to plasma cells and is a potent growth factor for plasmacytoma and myeloma. Continuous IL-6 gene expression makes an essential contribution to a multistep oncogenesis of plasma cell neoplasia. IL-6 is a very useful culture supplement for the generation of a high number of antibody-producing hybridomas.
Species	Rat IgG _{2a}
Formulation	1.0 ml (0.5 mg/ml) 0.2 µm filtered antibody solution in PBS.
Application	The antibody can be used for immunochemical investigations of mouse IL-6 in structural studies and for quantitative/qualitative immunochemical detection methods. The antibody neutralizes the biological activity of mouse IL-6. Furthermore the antibody is useful for Western blot and as tracer antibody use in immuno assay procedures.
Use	For Western blotting dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:10. For neutralisation of biological activity dilutions have to be made according to the amount of IL-6 to be inactivated.
Storage and stability	Lyophilized product should be stored at 4°C. Store stock solution in aliquots at -20°C. Repeated freeze and thaw cycles will cause loss of activity. Under recommended storage conditions, product is stable for one year.
Precautions	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and Federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result with the use of or derivation of this product.
References	<ol style="list-style-type: none">1. Takatsuki, F et al; Human recombinant IL-6/B cell stimulatory factor 2 augments murine antigen-specific antibody responses in vitro and in vivo. <i>J Immunol</i> 1988, <i>141</i>: 30722. McKenzie, D et al; Alloantigen presentation by B cells. Requirement for IL-1 and IL-6. <i>J Immunol</i> 1988, <i>141</i>: 29073. van Snick, J et al; Interleukin-6: an overview. <i>Annu Rev Immunol</i> 1990, <i>8</i>: 2534. Heinrich, PC et al; Interleukin-6 and the acute phase response. <i>Biochem J</i> 1990, <i>265</i>: 6215. Starnes, HF Jr et al; Anti-IL-6 monoclonal antibodies protect against lethal <i>Escherichia coli</i> infection and lethal tumor necrosis factor-alpha challenge in mice. <i>J Immunol</i> 1990, <i>145</i>: 41856. Hirano, T et al; Interleukin 6 (IL-6) and its receptor: their role in plasma cell neoplasias. <i>Int J Cell Cloning</i> 1991, <i>9</i>: 1667. Hooghe-Peters, E et al; Interleukin-1, interleukin-6: messengers in the neuroendocrine immune system? <i>Pathol Res Pract</i> 1991, <i>187</i>: 622
Also available	HM1004-01 Monoclonal antibody against Mouse IL-6, clone MP5-20F3; 100 µg HM1004-05 Monoclonal antibody against Mouse IL-6, clone MP5-20F3; 500 µg HM1005-01 Monoclonal antibody against Mouse IL-6, clone MP5-32C11; 100 µg HP8008 Polyclonal antibody against Mouse IL-6; 100 µg