

**MONOCLONAL ANTIBODY TO  
MOUSE INTERLEUKIN 6**  
Clone MP5-20F3



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<b>Catalog nr</b>	HM1004b (lot number and expiry date are indicated on the label)
<b>Description</b>	The antibody neutralizes 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 bind to either human or rat IL-6. The antibody inhibits IL-6 induced proliferation of the B9 assay. 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.
<b>Species</b>	Rat IgG <sub>1</sub>
<b>Formulation</b>	0.5 ml (1.0 mg/ml) 0.2 µm filtered antibody solution in PBS.
<b>Application</b>	The antibody can be used for in vitro and in vivo inhibition of activity of IL-6. Furthermore the antibody is useful for immunochemical investigations of mouse IL-6 in structural studies and for quantitative/qualitative immunochemical detection methods. This antibody may be used as a coating antibody in immuno assay procedures.
<b>Use</b>	For neutralisation of biological activity dilutions have to be made according to the amount of IL-6 to be inactivated.
<b>Storage and stability</b>	Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.
<b>Precautions</b>	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. Hbt is not responsible for any patent infringements that might result with the use of or derivation of this product.
<b>References</b>	<ol style="list-style-type: none"><li>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>: 3072</li><li>2. McKenzie, D et al; Alloantigen presentation by B cells. Requirement for IL-1 and IL-6. <i>J Immunol</i> 1988, <i>141</i>: 2907</li><li>3. van Snick, J et al; Interleukin-6: an overview. <i>Annu Rev Immunol</i> 1990, <i>8</i>: 253</li><li>4. Heinrich, PC et al; Interleukin-6 and the acute phase response. <i>Biochem J</i> 1990, <i>265</i>: 621</li><li>5. 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>: 4185</li><li>6. 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>: 166</li><li>7. 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</li></ol>
<b>Also available</b>	HM1004a            Monoclonal antibody against Mouse IL-6, clone MP5-20F3; 100 µg HM1005a            Monoclonal antibody against Mouse IL-6, clone MP5-32C11; 100 µg HM1005b            Monoclonal antibody against Mouse IL-6, clone MP5-32C11; 500 µg HP8008             Polyclonal antibody against Mouse IL-6; 100 µg