

MONOCLONAL ANTIBODY TO MOUSE INTERLEUKIN 6

Clone MP5-20F3



Catalog nr	HM1004a (lot number and expiry date are indicated on the label)
Description	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.
Species	Rat IgG ₁
Formulation	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.02% sodium azide and 0.1% bovine serum albumin.
Application	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.
Use	For neutralisation of biological activity dilutions have to be made according to the amount of IL-6 to be inactivated. Before use in biological assays, the product must be filter sterilized and depending on the concentration to be used dialyzed against culture medium to remove the sodium azide added. Please inquire for availability of azide free solutions.
Storage and stability	Product should be stored at 4°C. 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. Hbt 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	HM1004b Monoclonal antibody against Mouse IL-6, clone MP5-20F3; 500 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