MONOCLONAL ANTIBODY TO HUMAN CD120b, TNF-RII (p75/p80)

Clone MR2-1

HyCult biotechnology b.v.

Catalog nr HM2007 (lot number and expiry date are indicated on the label)

Description The antibody MR2-1 reacts with the extra-cellular part of the TNF-RII. It also reacts with the soluble receptor. TNF-RII is present on most cell types and is considered to play a prominent role in cell stimulation by TNF-alpha. TNF-RII molecule is shown to be responsible for stimulation of activated T-lymphocytes by TNF-alpha. The antibody cross reacts with rhesus and cynomolgus natural TNF-RII.

Species Mouse 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 monoclonal antibody MR2-1 is an agonistic antibody (after cross-linking) and receptor modulating antibody useful for cell culture experiments, flow cytometry and immunohistology on frozen sections. Furthermore the monoclonal antibody MR2-1 is useful for immunoprecipitation, Western blotting and immuno assays. The reactivity of the antibody MR2-1 with cell-bound TNF-Receptor is minimally inhibited by high concentrations of TNF-alpha .

Use For immunohistology, flow cytometry and 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. Advised positive controls for frozen sections are human lymphnodes and for flow cytometry PHA activated T cells.

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

1. Leeuwenberg, JFM et al; Slow release of soluble TNF-Receptors by monocytes in vitro. J Immunol 1994, *152*: 4036
2. Leeuwenberg, JFM et al; Lipopolysaccharide LPS-mediated soluble TNF-Receptor release and TNF-Receptor expression by monocytes; role of CD14, LPS binding protein and bactericidal/permeability-increasing protein. J Immnol 1994, *152*: 5070
3. Marchetti, L et al; Tumor necrosis factor (TNF)-mediated neuroprotection against glutamate-induced excitotoxicity is enhanced by N-methyl-D-aspartate receptor activation. Essential role of a TNF receptor 2-mediated phosphatidylinositol 3-kinase-dependent NF-kappa B pathway. J Biol Chem 2004, *279*: 32869

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