

Human Interleukin-21 Monoclonal antibodies

FOR NEUTRALIZATION

General

Antibody:	MT216G/21.3m
Product code:	3540-0N-500
Quantity:	500 µg
Immunogen:	Recombinant human IL-21
Isotype:	Mouse IgG1
Specificity:	Native and recombinant human IL-21. Cross-reacts with native IL-21 from rhesus and cynomolgus macaques. Cross-reactivity has been tested in ELISA or ELISpot. Please contact Mabtech for information on reactivity with other monkey species.
Concentration:	1 mg/ml
Buffer:	Supplied in sterile filtered (0.2 µm) PBS. Contains no preservatives. The endotoxin content in the product is below 10 EU/mg.
Purification:	Purified from <i>in vitro</i> cultures by protein G affinity chromatography.
Storage:	Store product at 4-8°C or frozen at -20°C or below. Avoid repeated freezing/thawing.
Applications:	Neutralization of human IL-21 bioactivity. It is recommended to establish the optimal antibody concentration for the assay system used.

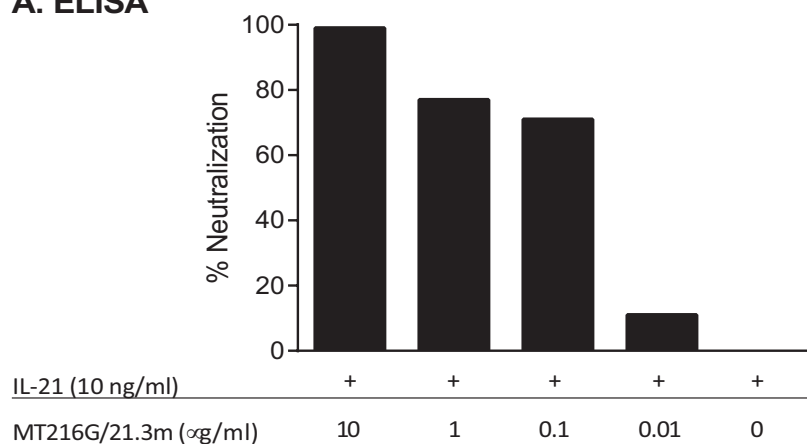
Neutralization

Neutralization assay: The neutralizing capacity and ND_{50} was determined using ELISA and ELISpot. A) HEK cells were transfected to express the IL-21 activation pathway with alkaline phosphatase as a reporter. Cells were stimulated in the presence of recombinant human IL-21 (10 ng/ml) with or without serial dilutions of mAbs MT216G/21.3m. After overnight incubation, enzyme activity was measured in ELISA. B) Human peripheral blood mononuclear cells (PBMC) were incubated with recombinant IL-21 (10 ng/ml) with or without serial dilutions of mAbs MT216G/21.3m. After 4 days the IgG-secreting B cells were quantified by ELISpot.

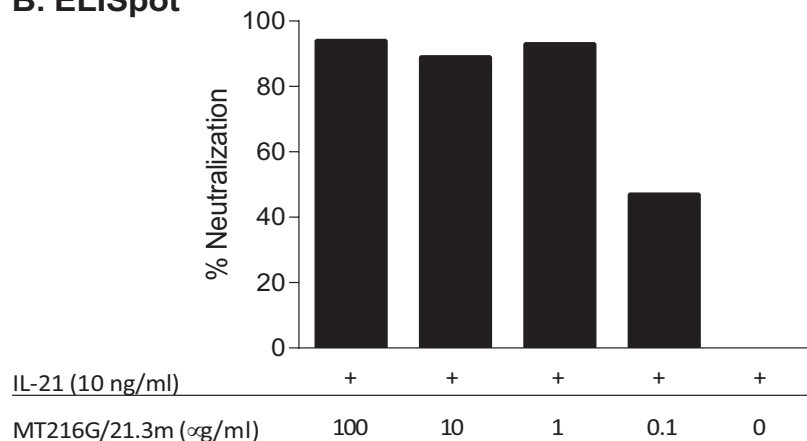
Neutralization dose 50 (ND₅₀): MT216G/21.3m neutralized the effect of IL-21 at a ND_{50} value of approximately 0.05 μ g/ml when HEK cells were activated with 10 ng/ml of IL-21 (A). The corresponding ND_{50} value for human PBMC activated with 10 ng/ml IL-21 was approximately 0.2 μ g/ml.

ND_{50} is defined as the concentration of antibody that results in 50% inhibition of the biological response under the experimental conditions specified.

A. ELISA



B. ELISpot



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