

**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.

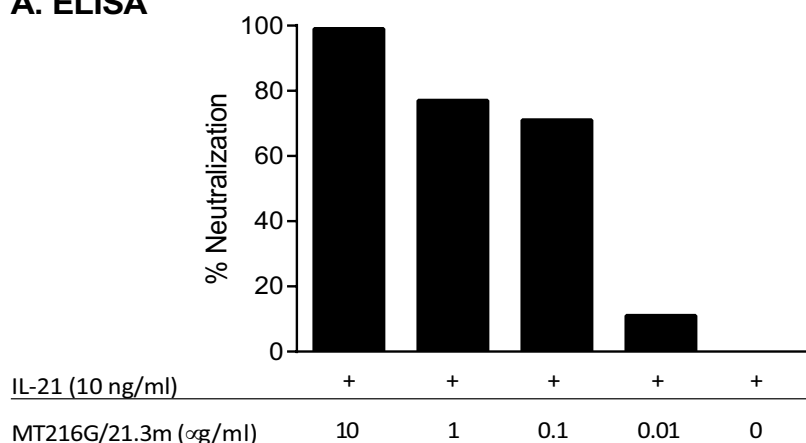
Neutralization

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.

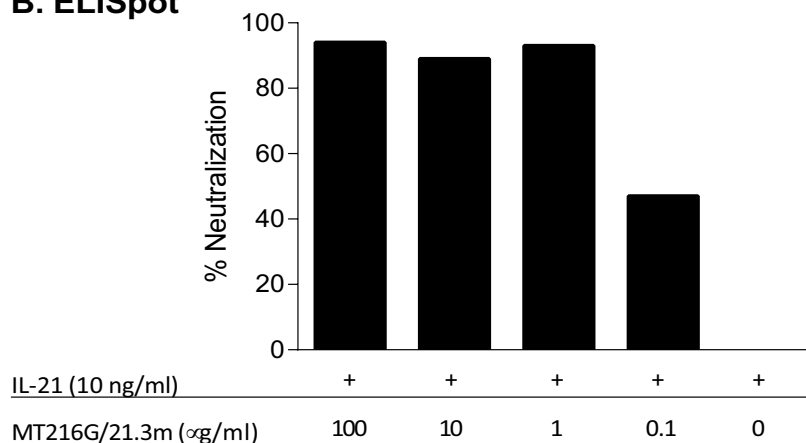
Neutralization dose 50 (ND_{50}): MT216G/21.3m neutralized the effect of IL-21 at a ND_{50} value of approximately 0.05 $\mu\text{g/ml}$ when HEK cells were activated with 10 ng/ml of IL-21 (A). The corresponding ND_{50} value for human PBMC activated with 10 ng/ml IL-21 was approximately 0.2 $\mu\text{g/ml}$.

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



Developed and manufactured by MABTECH AB, Sweden, whose quality management system complies with the standards ISO 9001:2015 & ISO 13485:2016.



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