

**Human Interleukin-31
Monoclonal antibody
FOR NEUTRALIZATION**

General

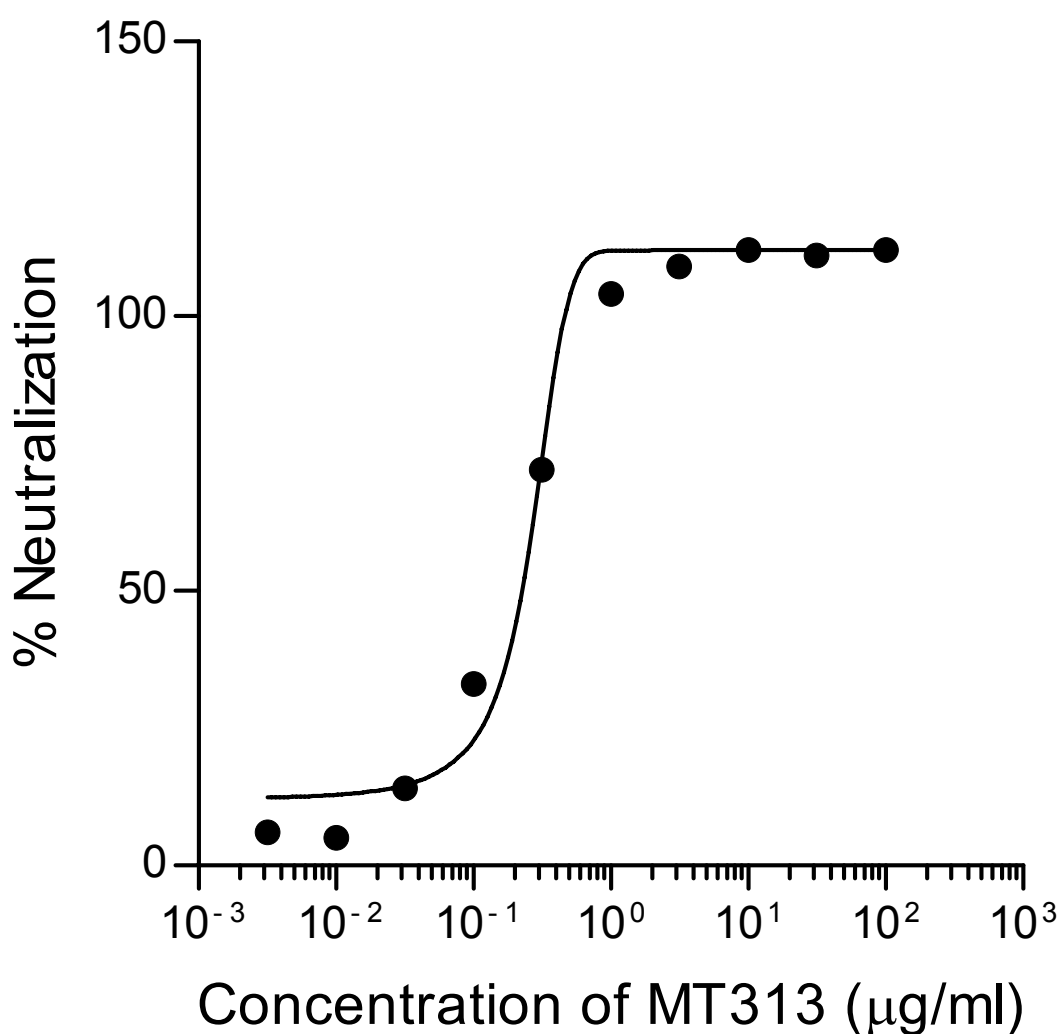
Antibody:	MT313
Product code:	3530-0N-500
Quantity:	500 µg
Immunogen:	Recombinant human IL-31
Isotype:	Mouse IgG1
Specificity:	Native and recombinant human IL-31
Concentration:	1 mg/ml
Buffer:	Supplied in sterile filtered (0.2 µm) PBS. Contains no preservatives. The endotoxin content in the product is 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-31 bioactivity. It is recommended to establish the optimal antibody concentration for the assay system used.

Neutralization

Neutralization assay: Neutralization of human IL-31 induced IL-6 production (see graph). To determine the neutralizing capacity and ND_{50} , mixtures of human recombinant IL-31 (50 ng/ml) and various concentrations of mAb MT313 were added to human aortic endothelial cells that had been pre-stimulated with recombinant human IFN- γ (10 ng/ml). Following overnight incubation, cell supernatants were quantified in IL-6 ELISA.

Neutralization dose 50 (ND_{50}): MT313 neutralized the effect of human IL-31 at a ND_{50} value of 0.1-0.6 $\mu\text{g/ml}$ when 50 ng/ml of human IL-31 was present.

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



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