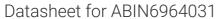
# antibodies - online.com







# anti-IL-21 antibody

# **Publications**



$\sim$			
	$  \backslash / \square  $	r\/I	$\triangle V$

Quantity:	500 μg
Target:	IL-21 (IL21)
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This IL-21 antibody is un-conjugated
Application:	Neutralization (Neut)

## **Product Details**

Immunogen:	Recombinant human IL-21
Clone:	MT216G-21-3m
Isotype:	lgG1
Specificity:	Native and recombinant IL-21
Purification:	Purified from in vitro cultures by protein G affinity chromatography.

## **Target Details**

Target:	IL-21 (IL21)	
Alternative Name:	IL21 (IL21 Products)	
Gene ID:	59067	
Pathways:	JAK-STAT Signaling, Regulation of Leukocyte Mediated Immunity, Positive Regulation of	

 $Order\ at\ www.antibodies-online.com\ |\ www.antiboerper-online.de\ |\ www.anticorps-enligne.fr\ |\ www.antibodies-online.com\ |\ www.antiboerper-online.de\ |\ www.antiboerper-online.d$ International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN6964031 | 01/23/2024 | Copyright antibodies-online. All rights reserved.

#### Immune Effector Process, Production of Molecular Mediator of Immune Response

## **Application Details**

#### Application Notes:

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 ND50 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 ND50value of approximately 0.05  $\mu$ g/mL when HEK cells were activated with 10 ng/mL of IL-21 (A). The corresponding ND50value for human PBMC activated with 10 ng/mL IL-21 was approximately 0.2  $\mu$ g/mL. ND50 is defined as the concentration of antibody that results in 50 % inhibition of the biological response under the experimental conditions specified.

Restrictions:

For Research Use only

#### Handling

Concentration:	1 mg/mL
Buffer:	supplied at 1 mg/mL in PBS free of preservatives
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store product at 4-8°C or frozen at -20°C or below. Avoid repeated freezing/thawing.
Expiry Date:	18 months

#### **Publications**

Product cited in:

You, Zhang, Cui, Zhu, Lv, Tang, Sun: "Th9 cells promote antitumor immunity via IL-9 and IL-21 and demonstrate atypical cytokine expression in breast cancer." in: **International immunopharmacology**, Vol. 52, pp. 163-167, (2018) (PubMed).

Huang, Ehrnfelt, Paulie, Zuber, Ahlborg: "ELISpot and ELISA analyses of human IL-21-secreting cells: Impact of blocking IL-21 interaction with cellular receptors." in: **Journal of immunological methods**, Vol. 417, pp. 60-66, (2015) (PubMed).