



Datasheet for ABIN6964031

anti-IL-21 antibody



[Go to Product page](#)

2 Publications

Overview

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:	IgG1
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

Target Details

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 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 µg/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 µg/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](#)).