

**Human Interleukin-12/-23 (p40)  
Monoclonal antibody  
FOR NEUTRALIZATION**

# General

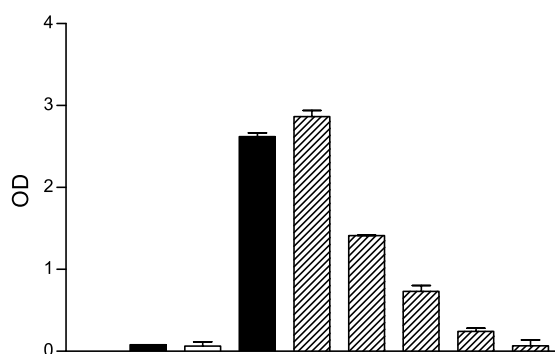
<b>Antibody:</b>	MT3279H
<b>Product code:</b>	3450-0N-500
<b>Quantity:</b>	500 µg
<b>Immunogen:</b>	Recombinant human IL-23
<b>Isotype:</b>	Mouse IgG2b
<b>Specificity:</b>	Native and recombinant p40 subunit of human IL-12 and IL-23
<b>Concentration:</b>	1 mg/ml
<b>Buffer:</b>	Supplied in sterile filtered (0.2 µm) PBS. Contains no preservatives. The endotoxin content in the product is below 10 EU/mg.
<b>Purification:</b>	Purified from <i>in vitro</i> cultures by protein G affinity chromatography.
<b>Storage:</b>	Store product at 4-8°C or frozen at -20°C or below. Avoid repeated freezing/thawing.
<b>Applications:</b>	Neutralization of human IL-12 and IL-23 bioactivity. It is recommended to establish the optimal antibody concentration for the assay system used.

# Neutralization

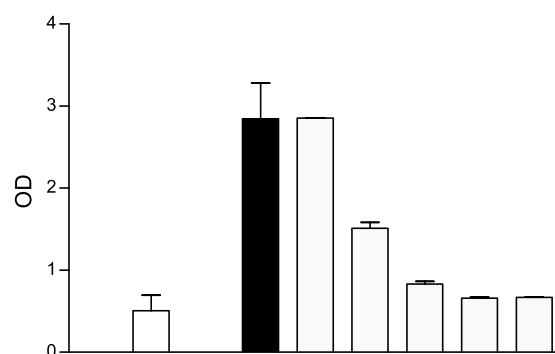
**Neutralization assay:** Neutralization of human IL-12 and human IL-23 induced IFN- $\gamma$  production (see graphs). To determine the neutralizing capacity and ND<sub>50</sub> on IL-12 induced IFN- $\gamma$  production, mixtures of various concentrations of mAb MT3279H, human recombinant IL-12 (10 ng/ml) and recombinant IL-1 $\beta$  (50 ng/ml) were added to human PBMC. For determination of the neutralizing capacity and ND<sub>50</sub> on IL-23 induced IFN- $\gamma$  production, mixtures of various concentrations of mAb MT3279H, human recombinant IL-23 (10 ng/ml) and recombinant IL-18 (50 ng/ml) were added to human PBMC. Following overnight incubation, cell supernatants were quantified in IFN- $\gamma$  ELISA.

**Neutralization dose 50 (ND<sub>50</sub>):** MT3279H neutralized the effect of IL-12 and IL-23 at a ND<sub>50</sub> value of 0.2-0.5  $\mu$ g/ml when 10 ng/ml of recombinant human IL-12 or IL-23 was present.

ND<sub>50</sub> is defined as the concentration of antibody that results in 50% inhibition of the biological response under the experimental conditions specified.



IL-12 (10 ng/ml)	-	+	-	+	+	+	+	+	+
IL-1 $\beta$ (50 ng/ml)	-	-	+	+	+	+	+	+	+
MT3279H ( $\mu$ g/ml)	-	-	-	-	0.01	0.1	1	10	100



IL-23 (10 ng/ml)	-	-	+	+	+	+	+	+	+
IL-18 (50 ng/ml)	-	+	-	+	+	+	+	+	+
MT3279H ( $\mu$ g/ml)	-	-	-	-	0.01	0.1	1	10	100

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