

DESCRIPTION	
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human IL-10 in Western blots. In Western blots, this antibody shows approximately 5% cross-reactivity with recombinant mouse IL-10.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 23738
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human IL-10 Ser19-Asn178 Accession # P22301
<b>Endotoxin Level</b>	<0.10 EU per 1 µg of the antibody by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

**APPLICATIONS**  
Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
<b>Western Blot</b>	2 µg/mL	See Below
<b>Simple Western</b>	10 µg/mL	See Below
<b>Neutralization</b>	Measured by its ability to neutralize IL-10-induced proliferation in the MC/9-2 mouse mast cell line. Thompson-Snipes, L. <i>et al.</i> (1991) <i>J. Exp. Med.</i> <b>173</b> :507. At 2 µg/mL, this antibody will neutralize >60% of the bioactivity due to 5 ng/mL Recombinant Human IL-10.	

**DATA**

**Western Blot**

**Detection of Human IL-10 by Western Blot.** Western blot shows conditioned media of HEK293 human embryonic kidney cell line either mock transfected or transfected with human IL-10. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human IL-10 Monoclonal Antibody (Catalog # MAB217) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for IL-10 at approximately 16 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

**Simple Western**

**Detection of Human IL-10 by Simple Western™.** Simple Western lane view shows conditioned media of HEK293 human embryonic kidney cell line either mock transfected or transfected with human IL-10, loaded at 0.2 mg/mL. A specific band was detected for IL-10 at approximately 23 kDa (as indicated) using 10 µg/mL of Mouse Anti-Human IL-10 Monoclonal Antibody (Catalog # MAB217). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

**Neutralization**

**Cell Proliferation Induced by IL-10 and Neutralization by Human IL-10 Antibody.** Recombinant Human IL-10 (Catalog # 217-IL) stimulates proliferation in the MC/9-2 mouse mast cell line in a dose-dependent manner (orange line). Proliferation elicited by Recombinant Human IL-10 (5 ng/mL) is neutralized (green line) by increasing concentrations of Mouse Anti-Human IL-10 Monoclonal Antibody (Catalog # MAB217). At 5 µg/mL, this antibody will neutralize >60% Recombinant Human IL-10 induced bioactivity.

## PREPARATION AND STORAGE

**Reconstitution** Reconstitute at 0.5 mg/mL in sterile PBS.

**Shipping** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.  
\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

**Stability & Storage** Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

## BACKGROUND

Interleukin 10 (IL-10) is a pleiotropic cytokine that can exert either immunostimulatory or immunosuppressive effects on a variety of cell types. It is produced predominantly by Th2 lymphocytes and other activated lymphoid cells.