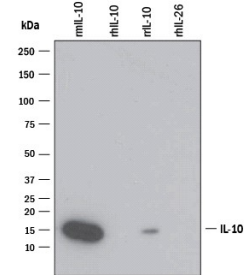
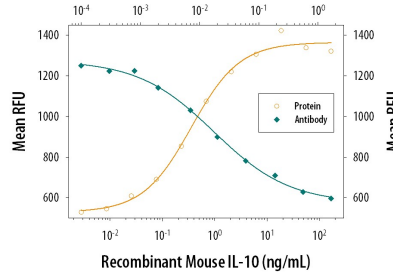


DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse IL-10 in sandwich ELISAs and Western blots. In sandwich ELISAs, less than 8% cross-reactivity with recombinant rat IL-10 and 1% cross-reactivity with recombinant cotton rat IL-10 is observed. In sandwich ELISAs, no cross-reactivity with recombinant human (rh) IL-10, recombinant mouse IL-10 R, rhIL-10 R, recombinant canine IL-10, recombinant feline IL-10, or recombinant porcine IL-10 is observed.
Source	Monoclonal Rat IgG ₁ Clone # JES052A5
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse IL-10 Accession # P18893
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS	
Please Note: Optimal dilutions should be determined by each laboratory for each application. <i>General Protocols</i> are available in the <i>Technical Information</i> section on our website.	
	Recommended Concentration Sample
Western Blot	1 µg/mL See Below
Mouse IL-10 Sandwich Immunoassay	Reagent
ELISA Capture	2-8 µg/mL Mouse IL-10 Antibody (Catalog # MAB417)
ELISA Detection	0.1-0.4 µg/mL Mouse IL-10 Biotinylated Antibody (Catalog # BAF417)
Standard	Recombinant Mouse IL-10 (Catalog # 417-ML)
Neutralization	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> 173 :507. The Neutralization Dose (ND ₅₀) is typically 0.005-0.015 µg/mL in the presence of 2.5 ng/mL Recombinant Mouse IL-10.

DATA	
<p>Western Blot</p>  <p>Detection of Recombinant Mouse IL-10 by Western Blot. Western blot shows 25 ng of Recombinant Mouse IL-10 (Catalog # 417-ML), Recombinant Human IL-10 (Catalog # 217-IL), Recombinant Rat IL-10 (Catalog # 522-RLB), and Recombinant Human IL-26/AK155 Monomer (Catalog # 1375-IL). PVDF Membrane was probed with 1 µg/mL of Rat Anti-Mouse IL-10 Monoclonal Antibody (Catalog # MAB417) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for IL-10 at approximately 15 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.</p>	<p>Neutralization</p>  <p>Cell Proliferation Induced by IL-10 and Neutralization by Mouse IL-10 Antibody. Recombinant Mouse IL-10 (Catalog # 417-ML) stimulates proliferation in the MC/9-2 mouse mast cell line in a dose-dependent manner (orange line). Proliferation elicited by Recombinant Mouse IL-10 (2.5 ng/mL) is neutralized (green line) by increasing concentrations of Rat Anti-Mouse IL-10 Monoclonal Antibody (Catalog # MAB417). The ND₅₀ is typically 0.005-0.015 µg/mL.</p>

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. <ul style="list-style-type: none"> ● 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.