

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IL-31 in direct ELISAs and Western blots. Does not cross-react with recombinant human IL-31.
Source	Monoclonal Rat IgG _{2B} Clone # 323407
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse IL-31 Thr24-Cys163 Accession # Q6EAL8
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. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	Recombinant Mouse IL-31

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

IL-31 is a 25 kDa, unique member of the short chain group of α-helical cytokines. It is produced by activated T cells, particularly the Th2 CD4⁺ phenotype. Mouse IL-31 cDNA encodes a 163 amino acid (aa) precursor that contains a 22 aa signal sequence and a 141 aa mature region. IL-31 signals through a receptor complex composed of IL-31 receptor A and Oncostatin M receptor. Mature mouse IL-31 shares 25% aa sequence identity with mature human IL-31 and 44% aa sequence identity with a rat IL-31-like protein.