

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
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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