

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IL-27 heterodimer in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse (rm) IL-27 p28, rmIL-27 EBI-3, or recombinant human (rh) IL-27 heterodimer is observed. In Western blots, no cross-reactivity with rml
Source	Monoclonal Rat IgG _{2A} Clone # 355028
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse IL-27 heterodimer Tyr19-Pro228 (EBI3) and Phe29-Ser234 (p28) Accession # O35228 (EBI3) & Q8K3I6 (p28)
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.

Immunoprecipitation 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

Interleukin 27 (IL-27) is a secreted heterodimeric cytokine comprised of the IL-12 p35-related protein, p28, and the IL-12 p40-related protein, EBI3 (Epstein-Barr virus-induced gene 3). IL-27 is expressed by monocytes, endothelial cells and dendritic cells. It binds TCCR/WSX-1 on naïve CD4⁺ T cells and induces the expression of a functional IL-12 receptor, allowing IL-12-induced Th1 polarization. Human EBI3 is 61% amino acid (aa) identical to mouse EBI3 and includes an 20 aa signal peptide and a 209 aa mature protein with two fibronectin type III domains.

PRODUCT SPECIFIC NOTICES

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