Human IL-18 Rβ/IL-1 R7 Alexa Fluor® 532-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF118X
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IL-18 Rβ in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant mouse IL-18 Rβ (AcPL), recombinant human (rh) IL-18 R, rhIL-1 R1, rhIL-1 RII, and rhIL-1 Rrp2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human IL-18 Rβ/IL-1 R7 Phe20-Arg356 Accession # O95256
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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.*

Neutralization	Optimal dilution of this antibody should be experimentally determined.
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-18, originally described as an interferon-γ inducing factor (IGIF), is a member of the IL-1 family of cytokines that has multiple immunoregulatory functions. It has potent IFN-γ inducing activities and plays a key role in the activation of T helper type 1 (Th1) responses. The functional IL-18 receptor complex consists of two components, the IL-18 Rα (IL-1 R5) and IL-18 Rβ (also termed IL-1 R7 and AcPL) subunits. Both subunits are members of the IL-1 receptor superfamily. Although IL-18 Rα by itself binds IL-18 with low-affinity and IL-18 Rβ does not bind IL-18 *in vitro*, co-expression of IL-18 Rα and IL-18 Rβ is required for high-affinity binding and IL-18 responsiveness. Human IL-18 Rβ cDNA encodes a 599 amino acid (aa) residue precursor type I membrane protein with a 14 aa signal peptide, a 342 aa extracellular region containing three immunoglobulin-like domains, a single transmembrane domain and a 222 aa cytoplasmic domain. Human and mouse IL-18 Rβ share 65% aa sequence identity. The expression of IL-18 Rβ parallels that of IL-18 Rα and is detected in numerous tissues including lung, spleen, leukocytes and colon.

PRODUCT SPECIFIC NOTICES

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Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475