

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IL-1 RAcP/IL-1 R3 in direct ELISAs and Western blots. In direct ELISAs, approximately 25% cross-reactivity with recombinant mouse IL-1 RAcP is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human IL-1 RAcP/IL-1 R3 Ser21-Glu359 Accession # Q9NPH3
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

CyTOF-ready	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Flow Cytometry	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-1 Receptor Accessory Protein (also IL-1 R3) is a ubiquitous, 70-90 kDa member of the interleukin-1 receptor family of proteins (1-5). It serves as a non-ligand-binding accessory component of the receptors for IL-1 α , IL-1 β , and IL-33 (6, 7). Together with IRAK4 and MyD88, it generates a functional signaling complex with IL-1 RI; by itself, it generates a non-signaling, but high-affinity binding complex with IL-1 RII (8). In addition, it interacts with ST2 on mast cells and Th2 T cells to create a functional IL-33 receptor complex (7). Mature human IL-1 RAcP is a type I transmembrane glycoprotein that is 550 amino acids in length. It contains a 347 amino acid (aa) extracellular region (aa 21-367), a 21 aa transmembrane segment, and a 182 aa cytoplasmic domain (9). The extracellular region shows three C2-type Ig-like domains, the most membrane proximal of which is suggested to be responsible for dimerization with IL-1 RI (10). There are three alternative splice forms reported for IL-1 RAcP. One is transmembrane, and shows a 239 aa substitution for the C-terminal 122 amino acids (11). The other two are soluble; one shows a six aa substitution for aa 351-570, while a second shows a 45 aa substitution for aa 302-579 (12, 13). The soluble receptor isoforms appear to be inhibitory to IL-1 signaling. When present with soluble IL-1 RII, soluble IL-1 RAcP increases the IL-1 binding affinity of IL-1 RII more than 100-fold, thus neutralizing the effects of IL-1 (14). The human and mouse IL-1 RAcP precursors are 89% aa identical; within the extracellular region, they share 86% aa identity.

PRODUCT SPECIFIC NOTICES

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