

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IL-1 Rrp2/IL-1 R6 in direct ELISAs and Western blots. In direct ELISAs, less than 60% with recombinant rat IL-1 Rrp2 and recombinant human IL-1 Rrp2 is observed and less than 5% cross-reactivity with recombinant mouse (rm) IL-1 R4 is ob
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse IL-1 Rrp2/IL-1 R6 Asp22-Arg338 (Ala158Val) Accession # Q9ERS7
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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-1 Rrp2, also known as IL-1 R6, is a member of the IL-1 R/TLR superfamily. Members of this superfamily have a characteristic Toll-IL-1 R (TIR) domain in their cytoplasmic region. This superfamily can be further divided into three subgroups based on extracellular region analogies. IL-1 Rrp2 belongs to Subgroup 1 which is characterized by the presence of at least one immunoglobulin-like domain (1). Mouse IL-1 Rrp2/IL-1R6 is a 70 kDa type I transmembrane glycoprotein that is synthesized as a 574 amino acid (aa) precursor. The precursor contains a 21 aa signal sequence, a 317 aa extracellular region, a 21 aa transmembrane segment, and a 215 aa cytoplasmic domain (2). The extracellular region contains three C-type Ig-like domains. Within the extracellular region, mouse IL-1 Rrp2 is 64% and 80% aa identical to human and rat IL-1 Rrp2, respectively. Expression of IL-1 Rrp2 is restricted to lung epithelium, monocytes, skin-derived keratinocytes, fibroblasts and, to a lesser extent, endothelial cells (3). Studies have demonstrated that the functional receptor for IL-1F6, IL-1F8 and IL-1F9 is a combination of IL-1 Rrp2 and IL-1 RAcP. This suggests that IL-1 Rrp2 ligands may signal in a similar fashion to IL-1 and IL-18. In each case, there is a binding receptor which, upon ligation, recruits a second receptor as a signaling component, forming an active heterodimeric receptor complex (4).

PRODUCT SPECIFIC NOTICES

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