



IL1RN Polyclonal Antibody

E92088

Catalog Number: E92088**Amount:** 100ul

Background: The founding members of the interleukin-1 (IL-1) superfamily include pro-inflammatory cytokines IL-1 α and IL-1 β , and a third protein that acts as an IL-1 receptor antagonist (IL-1RA). At least six similar proteins have been recently identified, including a homolog of IL-1RA (IL1F5). The three better-characterized proteins (IL-1a, IL-1b and IL-1RA) are mainly expressed in macrophages, monocytes, and dendritic cells. IL-1a and IL-1b act as potent inflammatory cytokines that help regulate host defense and immune responses (1). Binding of these pro-inflammatory cytokines to an IL-1 receptor recruits adapter proteins (such as IRAK) to the receptor. Phosphorylation of these adaptor proteins promotes downstream signaling cascades associated with the immune response (2). Altered expression of both IL-1a and IL-1b is associated with an extensive list of human disorders, including Alzheimer's disease, rheumatoid arthritis, psoriasis and various forms of cancer (3,4). IL-1RA acts as an anti-inflammatory cytokine, binding the IL-1 receptor to limit the response to inflammation (5). Because it plays a key role in regulating the inflammatory response, recombinant IL-1RA is a therapeutic agent used in the treatment of diseases such as rheumatoid arthritis. Alternatively, mutation of the corresponding IL-1RA gene may be associated with susceptibility to the development of specific cancers (6).

Species: Rabbit**Isotype:** IgG

Storage/Stability: Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonyms: ICIL-1RA; IL-1ra3; IL1F3; IL1RA; IRAP; MGC10430;

Immunogen: Recombinant protein of human IL1RN

Purification: Affinity purification

Reactivity: H M R

Applications: WB IHC

Molecular Weight: 20kDa

Swiss-Prot No.: P18510

Gene ID: 3557

References: 1. Pelegrin, P. (2008) Drug News Perspect 21, 424-33. 2. Ringwood, L. and Li, L. (2008) Cytokine 42, 1-7. 3. Griffin, W.S. and Mrak, R.E. (2002) J Leukoc Biol 72, 233-8. 4. Kamangar, F. et al. (2006) Cancer Epidemiol Biomarkers Prev 15, 1920-8. 5. Arend, W.P. Cytokine Growth Factor Rev 13, 323-40. 6. Sehouli, J. et al. Anticancer Res 22, 3421-4.

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