Interleukin-1 RA (hIL-1RA)*. Rabbit Polyclonal Antibody
IL1RA, Rabbit anti human Interleukin-1 RA

BACKGROUND
Produced by activated macrophages, IL-1 stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity. IL-1 proteins are involved in the inflammatory response, being identified as endogenous pyrogens, and are reported to stimulate the release of prostaglandin and collagenase from synovial cells. The lack of a specific hydrophobic segment in the precursor sequence suggests that IL-1 is released by damaged cells or is secreted by a mechanism differing from that used for other secretory proteins.

IMMUNOGEN
Human recombinant interleukin 1 receptor antagonist (hIL-1RA). Sera from immunized rabbits.

POSITIVE CONTROL/TISSUE EXPRESSION
Recognizes human IL-1RA. Does not recognize hIL-1α, hIL-1β or a panel of other human cytokines.

COMMENTS
ELISA: This antibody has been used as a solution-phase antibody at 2 µg/ml in a two-site ELISA with unconjugated IL-1ra antibody (Cat. No. L143M). Typically the ELISA has a working range of 27-20000 pg/ml and a sensitivity of <5 pg/ml with the appropriate standard. Recommended sample volumes are 25-200 µl. Recovery of hIL-1RA in human plasma is typically > 85% in the ELISA. Can also be used for immunoprecipitation in solution using a double-antibody method and Western blot at 10 µg/ml.
**PURIFICATION**
Protein A/G Chromatography

**SHIP CONDITIONS**
Room Temperature

**STORAGE CUSTOMER**
Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

**STABILITY**
Antibodies are stable for one year from purchase if stored frozen

**REFERENCES**
2. Towbin, H., et al. 'Monoclonal antibody based enzyme-linked and chemiluminescent assays for the human interleukin -1 receptor antagonist. Application to measure hIL-1ra levels in monocyte cultures and synovial fluids.' J. Immunol. Methods 1994, 170, 125-135

**PRODUCT SPECIFIC REFERENCES**