

# Product Data Sheet

## Biotin anti-human IL-1 RA

**Catalog # / Size:** 509501 / 50 µg  
509502 / 500 µg

**Clone:** Poly5095

**Isotype:** Rabbit IgG

**Immunogen:** Recombinant human IL-1 receptor antagonist

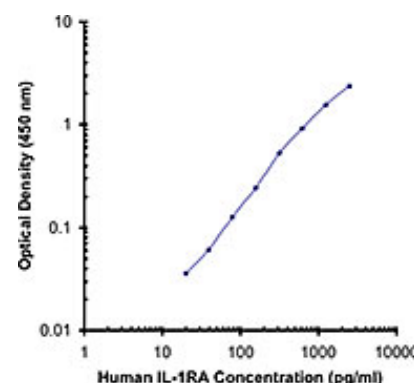
**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C. **Do not freeze.**



## Applications:

**Applications:** ELISA Detection

**Recommended Usage:** Each lot of this antibody is quality control tested by ELISA assay. For ELISA capture applications, a concentration range of 0.5-2 µg/ml is recommended. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** **ELISA Detection:** The biotinylated Poly5095 antibody is useful as the detection antibody in a sandwich ELISA assay, when used in conjunction with the purified JK1RA-1 (Cat. No. 509902) antibody as the capture antibody.

**Description:** Interleukin-1 receptor antagonist (IL-1RA) is composed of three isoforms, one secreted (sIL-1Rα/IL-1Rα1), two intracellular (IL-1Rα2/IL-1Rα3) and produced by monocytes, tissue macrophages, Langerhans cells, dendritic cells, T and B cells, natural killer (NK) cells, large granular lymphocytes (LGL), vascular endothelium, smooth muscle, fibroblasts, thymic epithelia, astrocytes, microglia, glioma cells, keratinocytes, and chondrocytes. It is upregulated by IL-1β, IL-4, IL-6 and downregulated by glucocorticoids. The Poly5095 polyclonal antibody reacts with human interleukin-1 receptor antagonist (IL-1RA).

**Antigen References:**

1. Carter D, *et al.* 1990. *Nature* 344:633.
2. Chirivi R, *et al.* 1993. *Cancer Res.* 53:5051.
3. Holtkamp G, *et al.* 1999. *Eur. J. Immunol.* 29:215.
4. Kim J, *et al.* 2003. *Gene Ther.* 10:1543.

### Related Products:

**Product**  
HRP Avidin  
TMB Substrate Reagent Set  
ELISA Assay Diluent (5X)  
Purified anti-human IL-1 RA

**Clone**  
Avidin

JK1RA-1

### Application

ELISA, ELISPOT, IHC, WB  
ELISA  
ELISA  
ELISA Capture



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