

## IL-1ra (m): 293T Lysate: sc-127004

### BACKGROUND

Two forms of interleukin-1, designated IL-1 $\alpha$  and IL-1 $\beta$ , have been described. Although encoded by distinct genes and exhibiting roughly only 25% sequence identity, IL-1 $\alpha$  and IL-1 $\beta$  bind to the same receptor and seem to elicit similar biological responses. Both proteins are synthesized as precursors that are processed to mature polypeptides. IL-1 production is generally thought to be associated with inflammation, but it has also been shown to be expressed during kidney development, thymocyte differentiation and cartilage degradation. IL-1 plays a critical role in the regulation of immune response and inflammation acting as an activator of T and B lymphocytes and natural killer (NK) cells. In T cells, IL-1 stimulates the production of IL-2 and selectively inhibits IL-4 expression. IL-1 receptor antagonist (IL-1ra) is a cytokine that inhibits IL-1 $\alpha$  and IL-1 $\beta$  binding to interleukin receptors.

### REFERENCES

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7. Sandborg, C.I., et al. 1995. IL-4 expression in human T cells is selectively inhibited by IL-1 $\alpha$  and IL-1 $\beta$ . *J. Immunol.* 155: 5206-5212.

### CHROMOSOMAL LOCATION

Genetic locus: IL1RN (human) mapping to 2 A3.

### PRODUCT

IL-1ra (m): 293T Lysate represents a lysate of mouse IL-1ra transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

### STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.

### APPLICATIONS

IL-1ra (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive IL-1ra antibodies. Recommended use: 10-20  $\mu$ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

### RESEARCH USE

For research use only, not for use in diagnostic procedures.