

Polyclonal Antibody to MCP1R - Aff - Purified

Catalog No.: 15-288-21067

Quantity: 0.1 mg

Concentration: 0.4 mg/ml

Background: Monoclonal antibody 1384 is useful for studying biological effects of IL-1Ra in vitro. The interleukin-1 receptor antagonist (IL-1Ra) is a naturally occurring molecule that shares homology with IL-1 α and IL-1 β . It binds competitively to IL-1 receptors Type I and Type II with the same affinity as does IL-1, but does not induce any intracellular response. Two structural variants of IL-1Ra have been described: a 17 kDa form that is secreted from monocytes, macrophages, neutrophils, and other cells (sIL-1Ra) and an 18-kDa form that remains in the cytoplasm of keratinocytes and other epithelial cells, monocytes, and fibroblasts (icIL-1Ra). An additional 16-kDa intracellular isoform of IL-1Ra has recently been described in neutrophils, monocytes, and hepatic cells. Both of the major isoforms of IL-1Ra are transcribed from the same gene through the use of alternative first exons. The production of IL-1Ra is stimulated by many substances including adherent IgG, other cytokines, and bacterial or viral components. The tissue distribution of IL-1Ra in mice indicates that sIL-1Ra is found predominantly in peripheral blood cells, lungs, spleen, and liver, while icIL-1Ra is found in large amounts in skin. Studies in transgenic and knockout mice indicate that IL-1Ra is important in host defense against endotoxin-induced injury. IL-1Ra is produced by hepatic cells with the characteristics of an acute phase protein. Endogenous IL-1Ra is produced in numerous experimental animal models of disease as well as in human autoimmune and chronic inflammatory diseases. The use of neutralizing anti-IL-1Ra antibodies has demonstrated that endogenous IL-1Ra is an important natural antiinflammatory protein in arthritis, colitis, and granulomatous pulmonary disease.

Host / Isotype: Chicken

Immunogen: Recombinant human IL-1Ra.

Format: **State:** Lyophilized purified Ig fraction.

Purification: Affinity chromatography.

Buffer System: Phosphate buffered saline (PBS), pH 7.2 containing 0.01% Thimerosal as a preservative and no stabilizer.

Reconstitution: Restore with 0.5 ml distilled water (stock solution).

Applications: Suitable for ELISA.

Distribution: The antigen is produced and secreted by monocytes and macrophages after stimulation with pro-inflammatory cytokines, LPS, and in vitro by immunoglobulins coated to surfaces after an induction phase of 4h. In vitro the quantity of IL-1Ra secreted depends on the dose and type of stimulus.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

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- Specificity:** Reacts with IL-1 receptor antagonist; negative with human IL-1beta, IL-1 alpha. Negative with mouse IL-1Ra.
- Storage:** Store the antibody at 2-8°C for one month or (in aliquots) at -20°C for longer. Do not freeze working dilutions. Avoid repeated freezing and thawing. Shelf life: One year from despatch.
- General References:** 1. Towbin, H. et al., J Immunol Meth 170:125-135. (1994)
2. Dinarello, C.A. and Thompson, R.C., Immunology Today 12:404. (1991)
3. Dinarello, C.A. and Wolff, S.M., New Engl. J. Med. 328:106. (1993)

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