

IL-1RII (H-71): sc-292522

BACKGROUND

Decoy receptors are structurally incapable of activating signaling pathways, but act as anti-inflammatory agents by sequestering agonists for actual signaling complexes. The type II IL-1 receptor (IL-1RII) acts as a decoy receptor for the chemokine interleukin-1 (IL-1). Additionally, the soluble form of IL-1R accessory protein (IL-1R AcP) increases the affinity of binding of IL-1 α and IL-1 β to IL-1RII 100-fold, but does not increase the affinity for another anti-inflammatory agent, IL-1R antagonist (IL-1R α). The end result is a complex regulatory mechanism for IL-1 activated inflammation, whereby dexamethasone and other molecules inducing IL-1RII, function in an immunosuppressive and anti-inflammatory manner.

REFERENCES

1. Sims, J.E., et al. 1989. Cloning of the interleukin-1 receptor from human T-cells. Proc. Natl. Acad. Sci. USA 86: 8946-8950.
2. McMahan, C.J., et al. 1991. A novel IL-1 receptor, cloned from B cells by mammalian expression, is expressed in many cell types. EMBO J. 10: 2821-2832.

CHROMOSOMAL LOCATION

Genetic locus: IL1R2 (human) mapping to 2q11.2. Il1r2 (mouse) mapping to 1 B.

SOURCE

IL-1RII (H-71) is a rabbit polyclonal antibody raised against amino acids 257-327 mapping near the C-terminus of IL-1RII of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

IL-1RII (H-71) is recommended for detection of IL-1RII of human and, to a lesser extent, mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

IL-1RII (H-71) is also recommended for detection of IL-1RII in additional species, including equine, canine and bovine.

Suitable for use as control antibody for IL-1RII siRNA (h): sc-72042, IL-1RII siRNA (m): sc-72043, IL-1RII shRNA Plasmid (h): sc-72042-SH, IL-1RII shRNA Plasmid (m): sc-72043-SH, IL-1RII shRNA (h) Lentiviral Particles: sc-72042-V and IL-1RII shRNA (m) Lentiviral Particles: sc-72043-V.

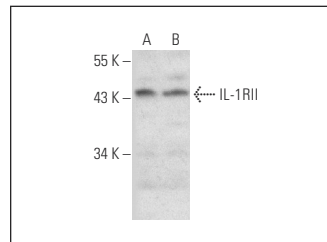
Molecular Weight of IL-1RII: 46 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or Jurkat whole cell lysate: sc-2204.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



IL-1RII (H-71): sc-292522. Western blot analysis of IL-1RII expression in HeLa (A) and Jurkat (B) whole cell lysates.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **IL-1RII (G-5): sc-376247** or **IL-1RII (6G5): sc-52678**, our highly recommended monoclonal alternatives to IL-1RII (H-71).