



IL-1RAcP (H-128): sc-99031

BACKGROUND

Interleukin-1 (IL-1) is a key pro-inflammatory cytokine that has diverse actions in the brain as a regulator of host defense responses and a mediator of inflammation. Two major agonists, IL-1 α and IL-1 β , bind to a single known functional type-1 IL-1 receptor (IL-1RI), which associates with the accessory protein (IL-1RAcP), resulting in signal transduction. IL-1F6, IL-1F8, and IL-1F9 signal through IL-1RAcP to activate NF κ B. The membrane bound form of IL-1RAcP (mIL-1RAcP) facilitates signal transduction. Two alternatively spliced isoforms, soluble IL-1RAcP (sIL-1RAcP) and sIL-1RAcP- β , which lack transmembrane and intracellular domains, can inhibit IL-1 signaling. Although both mIL-1RAcP and sIL-1RAcP mRNAs are widely expressed in human tissue, their relative proportions differ significantly in a tissue-specific manner.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: IL1RAP (human) mapping to 3q28; Il1rap (mouse) mapping to 16 B2.

SOURCE

IL-1RAcP (H-128) is a rabbit polyclonal antibody raised against amino acids 221-348 mapping within an internal region of IL-1RAcP 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-1RAcP (H-128) is recommended for detection of IL-1RAcP of mouse, rat and human 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).

Suitable for use as control antibody for IL-1RAcP siRNA (h): sc-60831, IL-1RAcP siRNA (m): sc-60832, IL-1RAcP shRNA Plasmid (h): sc-60831-SH, IL-1RAcP shRNA Plasmid (m): sc-60832-SH, IL-1RAcP shRNA (h) Lentiviral Particles: sc-60831-V and IL-1RAcP shRNA (m) Lentiviral Particles: sc-60832-V.

Molecular Weight of IL-1RAcP: 66 kDa.

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.

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.