

# IL-1Rrp2 (D-14): sc-168167

## BACKGROUND

IL-1Rrp2 (interleukin-1 receptor-related protein 2) or IL1RL2, is a member of the interleukin-1/Toll-like receptor family and is highly expressed in brain, skin and mammary and mucosal epithelial cells. IL-1Rrp2 exhibits 42% homology with interleukin-1 type 1 receptor and 26% homology with interleukin-1 type 2 receptor. IL-1Rrp2 mediates NF $\kappa$ B activation, MAPK activation and inflammatory responses triggered by ligands IL-1F6, IL-1F8 and IL-1F9. Signaling via IL-1Rrp2 also requires IL-1RAcP (interleukin-1 accessory protein). IL-1Rrp2 may play a role in immune defense in the GI tract and skin. IL-1Rrp2 may also be involved in the pathogenesis of rheumatoid arthritis (RA).

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## CHROMOSOMAL LOCATION

Genetic locus: IL1RL2 (human) mapping to 2q12.1; Il1rl2 (mouse) mapping to 1 B.

## SOURCE

IL-1Rrp2 (D-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of IL-1Rrp2 of mouse origin.

## RESEARCH USE

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

## PRODUCT

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

Blocking peptide available for competition studies, sc-168167 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

IL-1Rrp2 (D-14) is recommended for detection of IL-1Rrp2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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-1Rrp2 (D-14) is also recommended for detection of IL-1Rrp2 in additional species, including canine and bovine.

Suitable for use as control antibody for IL-1Rrp2 siRNA (h): sc-94696, IL-1Rrp2 siRNA (m): sc-146215, IL-1Rrp2 shRNA Plasmid (h): sc-94696-SH, IL-1Rrp2 shRNA Plasmid (m): sc-146215-SH, IL-1Rrp2 shRNA (h) Lentiviral Particles: sc-94696-V and IL-1Rrp2 shRNA (m) Lentiviral Particles: sc-146215-V.

Molecular Weight of IL-1Rrp2: 65 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz<sup>™</sup> 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.

## PROTOCOLS

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

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