

# IL-22R $\alpha$ 1 (E-13): sc-168172

## BACKGROUND

IL-22R $\alpha$ 1 (interleukin 22 receptor,  $\alpha$  1), whose alternative names include IL22R, cytokine receptor family 2 member 9, CRF2-9 or IL22R1, is a 574 amino acid single-pass type I membrane protein belonging to the type II cytokine receptor family. IL-22R $\alpha$ 1 is a component of IL20, IL22 and IL24 receptors, and exists as a heterodimer with IL-10R $\beta$  and IL-20R $\beta$ . Expressed in lung, liver kidney, colon and pancreas, IL-22R $\alpha$ 1 is also found in keratinocytes of normal skin and psoriatic skin lesions, normal blood brain barrier endothelial cells, and is strongly expressed in infiltrated multiple sclerosis lesions of central nervous system vessels. IL-22R $\alpha$ 1 increases the innate immune responses in inflammatory diseases, and IL-22R $\alpha$ 1 defects are associated with severe chronic rhinosinusitis. Containing two fibronectin type-III domains, IL-22R $\alpha$ 1 is encoded by a gene which maps to human chromosome 1p36.11.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: IL22ra1 (mouse) mapping to 4 D3.

## SOURCE

IL-22R $\alpha$ 1 (E-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a cytoplasmic domain of IL-22R $\alpha$ 1 of mouse origin.

## 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-168172 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

IL-22R $\alpha$ 1 (E-13) is recommended for detection of IL-22R $\alpha$ 1 of mouse and rat 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); non cross-reactive with IL-22R $\alpha$ 2.

Suitable for use as control antibody for IL-22R $\alpha$ 1 siRNA (m): sc-146217, IL-22R $\alpha$ 1 shRNA Plasmid (m): sc-146217-SH and IL-22R $\alpha$ 1 shRNA (m) Lentiviral Particles: sc-146217-V.

Molecular Weight of IL-22R $\alpha$ 1: 63 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.

## RESEARCH USE

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

## PROTOCOLS

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