

IL-22R α 2 (H-108): sc-134974

BACKGROUND

IL-22R α 2 (interleukin-22 receptor α -2 chain), also known as IL-22 binding protein (IL-22BP), cytokine receptor family class II member 10 (CRF2-10) or CRF2 soluble 1 (CRF2-S1), is a soluble, non-signaling single chain receptor for IL-22. It is highly expressed in intestine and lymph nodes and is also found in spleen, kidney and liver. IL-22R α 2 has a cytokine-binding domain that contains two FnIII domains. Its affinity for IL-22 is four- to ten-fold higher than that of the membrane bound IL-22 receptor, however it has a dissociation rate up to 20 times lower. By binding to IL-22, IL-22R α 2 prevents the binding to the IL-22 membrane bound receptor and therefore inhibits IL-22 signaling. This suggests that IL-22R α 2 may be important in regulating inflammatory responses. In addition, IL-22R α 2 can be induced by lipopolysaccharide (LPS).

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: IL22RA2 (human) mapping to 6q23.3.

SOURCE

IL-22R α 2 (H-108) is a rabbit polyclonal antibody raised against amino acids 156-263 mapping at the C-terminus of IL-22R α 2 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-22R α 2 (H-108) is recommended for detection of Interleukin-22 receptor α 2 chain precursor of 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).

IL-22R α 2 (H-108) is also recommended for detection of Interleukin-22 receptor α 2 chain precursor in additional species, including canine and porcine.

Molecular Weight of IL-22R α 2: 27 kDa.

Positive Controls: JAR cell lysate: sc-2276, Caki-1 cell lysate: sc-2224 or MCF7 whole cell lysate: sc-2206.

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.