

IL-22R α 2 (T-16): sc-67640

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 4- to 10-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 lipopolysaccharides (LPSs).

REFERENCES

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CHROMOSOMAL LOCATION

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

SOURCE

IL-22R α 2 (T-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of IL-22R α 2 of human origin.

STORAGE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-67640 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

IL-22R α 2 (T-16) 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), 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 (T-16) is also recommended for detection of Interleukin-22 receptor α 2 chain precursor in additional species, including canine.

Suitable for use as control antibody for IL-22R α 2 siRNA (h): sc-62495, IL-22R α 2 shRNA Plasmid (h): sc-62495-SH and IL-22R α 2 shRNA (h) Lentiviral Particles: sc-62495-V.

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 donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) 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™ Mounting Medium: sc-24941.

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.