

IL-1F9 (A-13): sc-168161

BACKGROUND

IL-1 (interleukin-1) is a cytokine responsible for initiating a variety of activities through the activation of transcription factors, NF κ B and AP-1, thereby promoting host response to injury or infection. The IL-1 superfamily is comprised of several ligands and receptors. IL-1F9, also known as interleukin-1 family member 9 (IL-1 ϵ F9), interleukin-1 homolog 1 (IL-1H1) or interleukin-1 ϵ (IL-1 ϵ), is a secreted ligand belonging to this superfamily. IL-1F9 is highly expressed in skin, stomach, lung and esophagus. IL-1F9 activates the IL-1Rrp2 and IL-1RAcP-dependent pathway leading to NF κ B activation. IL-1F5, another member of the IL-1 superfamily, acts as an antagonist, inhibiting the IL-1F9 response. Similar to other family members, IL-1F9 can be regulated by bacterial lipopolysaccharide (LPS). Expression of this protein is stimulated by IFN- γ , TNF α and IL-1 β .

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: IL1F9 (human) mapping to 2q13.

SOURCE

IL-1F9 (A-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of IL-1F9 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.

Blocking peptide available for competition studies, sc-168161 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

IL-1F9 (A-13) is recommended for detection of IL-1F9 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); non cross-reactive with other IL-1F family members.

Suitable for use as control antibody for IL-1F9 siRNA (h): sc-72176, IL-1F9 shRNA Plasmid (h): sc-72176-SH and IL-1F9 shRNA (h) Lentiviral Particles: sc-72176-V.

Molecular Weight of IL-1F9: 20 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[™] 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.

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.



Try **IL-1F9 (Y-12): sc-80056**, our highly recommended monoclonal alternative to IL-1F9 (A-13).