

IL-1F9 (E-13): sc-168163

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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STORAGE

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

CHROMOSOMAL LOCATION

Genetic locus: Il1f9 (mouse) mapping to 2 A3.

SOURCE

IL-1F9 (E-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of IL-1F9 of mouse 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-168163 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

IL-1F9 (E-13) is recommended for detection of IL-1F9 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 other IL-1F family members.

Suitable for use as control antibody for IL-1F9 siRNA (m): sc-146212, IL-1F9 shRNA Plasmid (m): sc-146212-SH and IL-1F9 shRNA (m) Lentiviral Particles: sc-146212-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.

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.