**BACKGROUND**

IL-1 (Interleukin-1) is a cytokine responsible for initiating a variety of activities through the activation of transcription factors, NFκB and AP-1, thereby promoting host response to injury or infection. The IL-1 superfamily is comprised of several ligands and receptors. IL-1F5, also known as IL-1α, IL-1-like protein 1 (IL-1L1), IL-1HY1, IL-1ra (receptor antagonist) homolog 1 or IL-1 related protein 3 (IL-1rp3), is a secreted ligand belonging to this superfamily. IL-1F5 is expressed in monocytes and macrophages and is activated by endotoxins. It shares 47% sequence identity with IL-1ra and similarly lacks the loop between the fourth and fifth β-strands. IL-1F5 acts as an antagonist, inhibiting the IL-1F9 activation of NFκB. Similar to other family members, IL-1F5 can be regulated by bacterial lipopolysaccharide (LPS).

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: IL36RN (human) mapping to 2q13; IL1F5 (mouse) mapping to 2 A3.

**SOURCE**

IL-1F5 (D-11) is a mouse monoclonal antibody raised against amino acids 26-110 mapping within an internal region of IL-1F5 of human origin.

**PRODUCT**

Each vial contains 200 µg IgGκ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

IL-1F5 (D-11) is available conjugated to agarose (sc-398515 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-398515 HRP), 200 µg/ml, for WB, IHC/IP and ELISA; to either phycoerythrin (sc-398515 PE), fluorescein (sc-398515 FITC), Alexa Fluor® 488 (sc-398515 AF488), Alexa Fluor® 546 (sc-398515 AF546), Alexa Fluor® 594 (sc-398515 AF594) or Alexa Fluor® 647 (sc-398515 AF647), 200 µg/ml, for WB (RGB), IF, IHC/IP and FCM; and to either Alexa Fluor® 680 (sc-398515 AF680) or Alexa Fluor® 790 (sc-398515 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

**APPLICATIONS**

IL-1F5 (D-11) is recommended for detection of IL-1F5 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

Suitable for use as control antibody for IL-1F5 siRNA (h): sc-72166, IL-1F5 siRNA (m): sc-72167, IL-1F5 shRNA Plasmid (h): sc-72166-SH, IL-1F5 shRNA Plasmid (m): sc-72167-SH, IL-1F5 shRNA (h) Lentiviral Particles: sc-72166-V and IL-1F5 shRNA (m) Lentiviral Particles: sc-72167-V.

Molecular Weight of IL-1F5: 17 kDa.

Positive Controls: IL-1F5 (h): 293T Lysate: sc-113962, HL-60 whole cell lysate: sc-2209 or SK-N-MC cell lysate: sc-2237.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).


**DATA**

**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 for detailed protocols and support products.