Membrane receptor signaling by various ligands, including interferons and growth hormones such as EGF, induces activation of JAK kinases which then leads to tyrosine phosphorylation of the various Stat transcription factors. Stat1 and Stat2 are induced by IFN-α and form a heterodimer which is part of the ISGF-3 transcription factor complex. Although early reports indicate Stat3 activation by EGF and IL-6, it has been shown that Stat3β appears to be activated by both while Stat3α is activated by EGF, but not by IL-6. Highest expression of Stat4 is seen in testis and myeloid cells. IL-12 has been identified as an activator of Stat4. Stat5 has been shown to be activated by Prolactin and by IL-3. Stat6 is involved in IL-4 activated signaling pathways.

**Background**

Stat1 p84/p91 (C-136) is available conjugated to agarose (sc-464 AC), 500 µg as an activator of Stat4. Stat5 has been shown to be activated by Prolactin Supershift and ChIP applications. Sc-464 X, 200 µg/0.1 ml.

**Storage**

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

**Source**

Stat1 p84/p91 (C-136) is a mouse monoclonal antibody raised against amino acids 613-739 of Stat1α p91 of human origin.

**Product**

Each vial contains 200 µg IgG, kappa light chain in 1 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP® applications, sc-464 X, 200 µg/0.1 ml.

Stat1 p84/p91 (C-136) is available conjugated to agarose (sc-464 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-464 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-464 PE), fluorescein (sc-464 FITC), Alexa Fluor® 488 (sc-464 AF488), Alexa Fluor® 546 (sc-464 AF546), Alexa Fluor® 594 (sc-464 AF594) or Alexa Fluor® 647 (sc-464 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FC; and to either Alexa Fluor® 680 (sc-464 AF680) or Alexa Fluor® 790 (sc-464 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FC.

**Applications**

Stat1 p84/p91 (C-136) is recommended for detection of Stat1β p84 and Stat1α p91 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein [1 ml of cell lysate]) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for Stat1 p84/p91 siRNA (h): sc-44123, Stat1 p84/p91 siRNA (m): sc-44124, Stat1 p84/p91 siRNA (r): sc-61879, Stat1 p84/p91 shRNA Plasmid (h): sc-44123-SH, Stat1 p84/p91 shRNA Plasmid (m): sc-44124-SH, Stat1 p84/p91 shRNA Plasmid (r): sc-61879-SH, Stat1 p84/p91 shRNA (h) Lentiviral Particles: sc-44123-V, Stat1 p84/p91 shRNA (m) Lentiviral Particles: sc-44124-V and Stat1 p84/p91 shRNA (r) Lentiviral Particles: sc-61879-V.

Stat1 p84/p91 (C-136) X TransCruz antibody is recommended for Gel Supershift and ChIP® applications.

Molecular Weight of Stat1 p84/p91: 86/91 kDa.

Positive Controls: Stat1 p84/p91 (h): 293T Lysate: sc-177983, HeLa whole cell lysate: sc-2200 or A-431 whole cell lysate: sc-2201.

**Select Product Citations**


**Research Use**

For research use only, not for use in diagnostic procedures.

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