

Anti-STAT1 alpha

Rabbit Polyclonal Antibody

Catalog # S52-63BR

Lot # O2109-2

Cited Applications

WB, ELISA, ICC, IP

Ideal working dilutions for each application should be empirically determined by the investigator.

Specificity

Recognizes the STAT1 protein

Cross Reactivity

Human, Mouse and Rat

Host/Isotype/Clone#

Rabbit, IgG

Immunogen

STAT1 antibody was raised against a peptide corresponding to amino acids near the carboxy terminus of human STAT1 alpha. The sequences differ from the murine corresponding sequences by four amino acids.

Formulation

PBS + 0.02% sodium azide

Stability

1yr at -20°C from date of shipment

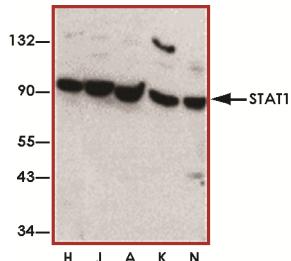
Scientific Background

STAT1 is a member of the signal transducers and activators of transcription (STAT) family of proteins that carry out a dual function: signal transduction and activation of transcription. STAT1 transcription factor is specific for the IFN pathway and plays a central role in mediating many, if not all, IFN-dependent biological responses (1). Presence of STAT1 leads to an efficient antiviral response when cells were infected with virus suggesting that a STAT-dependent pathway is activated following virus infection by endogenously produced IFN. Virus-induced STAT protein translocation from the cytoplasmic compartment can be detected within 3 h of infection.

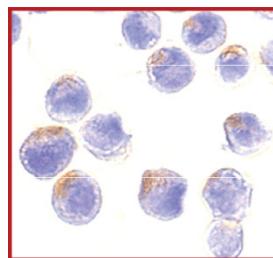
References

1. Impronta, T. et al: Susceptibility to virus infection is determined by a Stat-mediated response to the autocrine effect of virus-induced type I interferon. Cytokine. 1997 Jun;9(6):383-93.

Sample Data



Western blot analysis of STAT1 alpha in whole cell lysates from HeLa (H), Jurkat (J), A431 (A), K562 (K), and NIH3T3 (N) cells, with STAT1 alpha antibody at 1 ug/ml.



Immunocytochemistry of STAT1 alpha in HeLa cells with STAT1 alpha antibody at 10 ug/ml.

Anti-STAT1 alpha

Rabbit Polyclonal Antibody

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| Catalog Number | S52-63BR |
| Specific Lot Number | O2109-2 |
| Purification | Affinity chromatography |
| Stability | 1yr at -20°C from date of shipment |
| Storage & Shipping | Store product at -20°C. For optimal storage, aliquot antibody into smaller quantities after centrifugation and store at recommended temperature. For optimal performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped on ice packs. |

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