STAT1 alpha Antibody

Catalog No: #24004

Orders: order@signalwayantibody.com
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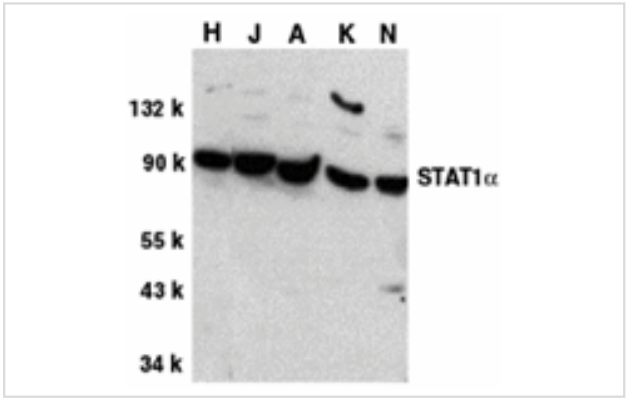
Description

Product Name	STAT1 alpha Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	DEAE purified
Applications	E WB ICC IP
Species Reactivity	Hu Ms Rt
Specificity	No reaction to the 84 kDa STAT1a.
Immunogen Type	Peptide
Immunogen Description	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.
Target Name	STAT1 alpha
Other Names	STAT1a
Accession No.	NP_009330
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

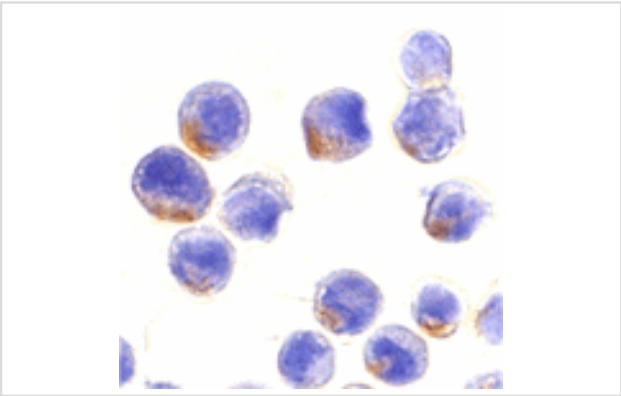
Application Details

Predicted MW: 91 kd

Images



Western blot analysis of STAT1 alpha in whole cell lysates from HeLa (H), Jurkat (J), A431 (A), K562 (K), and NIH3T3 (N) cells, with STAT1a antibody at 1 ug/mL.



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

Background

STATs (signal transducers and activators of transcription) are a family of cytoplasmic latent transcription factors that are activated to regulate gene expression in response to a large number of extracellular signaling polypeptides including cytokines, interferons, and growth factors. After phosphorylation by JAK tyrosine kinases, STATs enter the nucleus to regulate transcription of many different genes. Among the seven STATs (Stat1, Stat2, Stat3, Stat4, Stat5a, Stat5b, and Stat6), Stat1, Stat3, Stat5a, and Stat5b have a wide activation profile. STAT1 is activated by many different ligands including IFN family (IFN-α, IFN-β, IFN-γ and IL-10), gp130 family (IL-6, IL-11, LIF, CNTF, and G-CSF), and receptor tyrosine kinases (EGF, PDGF, and CSF-1). STAT1 has two forms, the 91 kDa STAT1α and the 84 kDa STAT1β which are encoded by the same gene with splicing variant.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.