



Mouse Monoclonal Antibody **STAT1 α** conjugated to Sepharose Beads

CatalogNo: **ANT8042-S**

Size 200ul

Storage Store at 4 °C for frequent use

Description

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays.

STAT1 α (ANT0079R) Rabbit mAb

Formulation: 50% slurry in PBS pH 7.2 with 0.01mg NaN₃3 preservative.

Host Species

- Rabbit
- Human, Mouse, Rat,

Reactivity

- WB, IHC, IF, IP, ELISA

Applications

MW

- 87kD (Calculated)
- 90kD (Observed)
- IgG, Kappa

Isotype

Recommended Dilution Ratios

Basic Information

Clonality Monoclonal

Clone Number ANT0079R

Immunogen Information Specificity

Endogenous

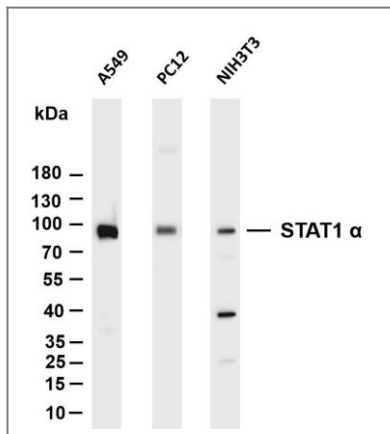
Gene name STAT1
Protein Name Signal transducer and activator of transcription 1-alpha/beta (Transcription factor ISGF-3 components p91/p84)

Organism	Gene ID	UniProt ID
Human	6772;	P42224;
Mouse		P42225;

Cellular Localization Nuclear

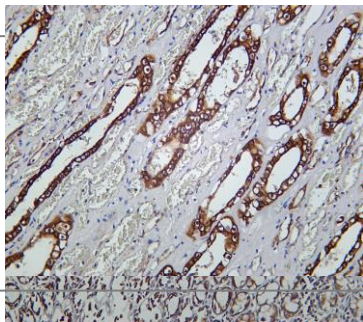
Function Signal transducer and transcription activator that mediates cellular responses to interferons (IFNs), cytokine KITLG/SCF and other cytokines and other growth factors. Following type I IFN (IFN-alpha and IFN-beta) binding to cell surface receptors, signaling via protein kinases leads to activation of Jak kinases (TYK2 and JAK1) and to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize and associate with ISGF3G/IRF-9 to form a complex termed ISGF3 transcription factor, that enters the nucleus . ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of IFN-stimulated genes (ISG), which drive the cell in an antiviral state. In response to type II IFN (IFN-gamma), STAT1 is tyrosine- and serine-phosphorylated . It then forms a homodimer termed IFNgamma-activated factor (GAF), migrates into the nucleus and binds to the IFN gamma activated sequence (GAS) to drive the expression of the target genes, inducing a cellular antiviral state. Becomes activated in response to KITLG/SCF and KIT signaling. May mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4.

Validation Data



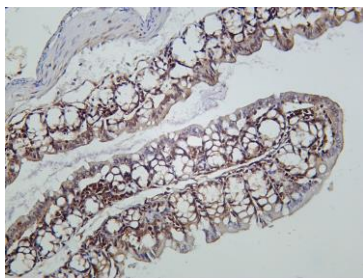
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-STAT1 α (ANT0079R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: A549 Lane 2: PC12 Lane 3: NIH3T3 Predicted band size:

87kDa Observed band size: 90kDa

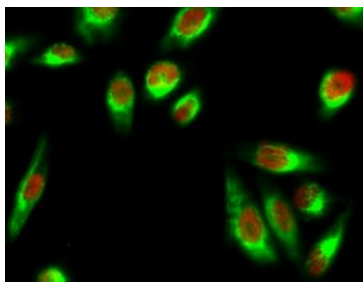


Rat colon was stained with Anti-STAT1 α (ANT0079R) rabbit antibody

Human kidney was stained with Anti-STAT1 α (ANT0079R) rabbit antibody



Mouse colon was stained with Anti-STAT1 α (ANT0079R) rabbit antibody



Immunofluorescence analysis of HeLa cell. 1, Stat1 Polyclonal Antibody(red) was diluted at 1:200(4° overnight). p53 Monoclonal Antibody(6C4)(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog:RS3611 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog:RS3208 was diluted at 1:1000(room temperature, 50min).

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