

ATAGENIX LABORATORIES

Catalog Number:ATP011 Anti STAT3 polyclonal antibody

Product overview

product name Anti STAT3 polyclonal antibody

catalog No. ATP011

Category Primary antibody

Host Rabbit

Species specificity Human, Mouse, Rat

Tested applications WB:1:2000~1:8000,ICC:1:50~200,IHC:1:50~100

Clonality Polyclonal

Conjugation Unconjugated

Immunogen Recombinant protein of human STAT3(Met1-Met770).

Alternative Names Signal transducer and activator of transcription 3, Acute-phase response factor,

STAT3,APRF

Uniprot ID P40763

Product performance

Form Liquid

Buffer PBS,pH7.4,containing 0.05% proclin300,50% glycerol.

Storage Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 4°C

for frequent use. Store at -20 to -80 °C for twelve months from the date of receipt.

Concentration 0.76mg/ml

Isotype IgG

MW 88kDa

Purity Antigen affinity purification

Dilution range

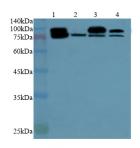
WB,ICC,IHC

Product experiment picture



ATAGENIX LABORATORIES

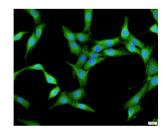
Catalog Number:ATP011 Anti STAT3 polyclonal antibody



Lysate:30µg/lane Lane 1:293T Lane 2:A549 Lane 3:HepG2 Lane 4:A2780

Predicted band size : 92kDa Observed band size : 92kDa

Various lysates were subjected to SDS PAGE followed by western blot with STAT3 antibody at dilution of 1:1000.



Immunofluorescent analysis of NIH/3T3 cells using STAT3 antibody at dilution of 1:50 and Alexa Fluor-488 conjugated Affinipure Goat anti-rabbit IgG(H+L).

Reference

PubMed:10688651;PubMed:12359225;PubMed:12873986;PubMed:15194700

Product background

Signal transducer and activator of transcription 3 (acute-phase response factor) (STAT3, synonyms: APRF, FLJ20882, MGC16063) is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. STAT3 is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. STAT3 mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of STAT3. This antibody is a rabbit polyclonal antibody raised against residues near the N terminus of human STAT3. STAT3 exists three isoforms and the molecular weight of each isoform respectively is 83 kDa, 87 kDa and 88 kDa.