

## 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

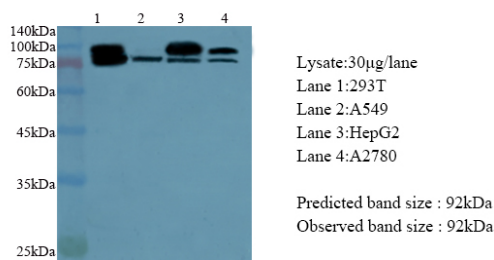
Form	Liquid
Buffer	PBS, pH 7.4, containing 0.05% proclin300, 50% glycerol.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 4°C for frequent use. Store at -20 to -80 °C for twelve months from the date of receipt.
Concentration	0.76mg/ml
Isotype	IgG
MW	88kDa
Purity	Antigen affinity purification

## Dilution range

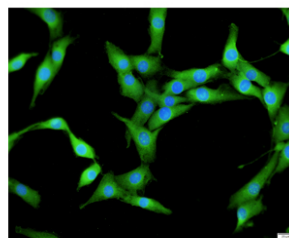
WB, ICC, IHC

## Product experiment picture





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.