

For Research Use Only

# Phospho-STAT3 (Ser727) Polyclonal antibody

Catalog Number: 28945-1-AP

12 Publications



## Basic Information

Catalog Number:

28945-1-AP

Concentration:

600 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC000627

GeneID (NCBI):

6774

UNIPROT ID:

P40763

Full Name:

signal transducer and activator of transcription 3 (acute-phase response factor)

Calculated MW:

770 aa, 88 kDa

Observed MW:

92-100 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

## Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB, IF

Species Specificity:

human

Cited Species:

human, mouse, rat, bovine

Positive Controls:

WB: HEK-293T cells,  $\lambda$  phosphatase treated HEK-293T cells

## Background Information

Signal transducer and activator of transcription 3 (acute-phase response factor) (STAT3, synonyms: APRF, FLJ20882, MGC16063) is a member of the STAT protein family. Phosphorylated STAT3 dimerizes and translocates to the nucleus, where it regulates the transcription of target genes through binding to specific DNA-responsive elements. In addition to activation by Tyr705 phosphorylation, STAT3 also requires phosphorylation on Ser727 to achieve maximal transcriptional activity. (PMID: 21617181)

## Notable Publications

Author	Pubmed ID	Journal	Application
Haoyun Bai	35861676	Biofactors	WB
Hongzhu Zhang	39986118	Redox Biol	WB, IF
Li Zhang	39656542	JCI Insight	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

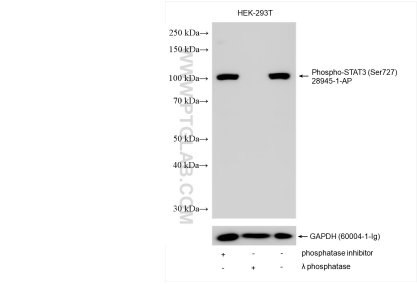
T: 4006900926

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## Selected Validation Data



Phosphatase inhibitor treated HEK-293T cells, λ phosphatase treated HEK-293T cells, and non-treated HEK-293T cells were subjected to SDS PAGE followed by western blot with 28945-1-AP (Phospho-STAT3 (Ser727) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH (60004-1-Ig) antibody as a loading control.