

For Research Use Only

# Phospho-STAT3 (Ser727) Monoclonal antibody, PBS Only

Catalog Number: 60479-1-PBS



## Basic Information

**Catalog Number:**

60479-1-PBS

**Size:**

100ug, Concentration: 1 mg/ml by Nanodrop;

**Source:**

Mouse

**Isotype:**

IgG2a

**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:**

85-90 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

2G11G11

## Applications

**Tested Applications:**

WB, IF/ICC, FC (Intra), Indirect ELISA

**Species Specificity:**

human, mouse, rat

## 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. 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, ILS, 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.

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS Only

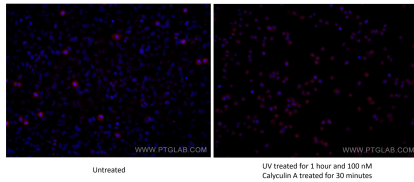
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

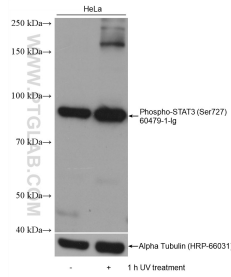
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

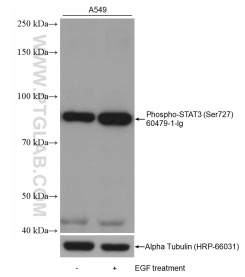
## Selected Validation Data



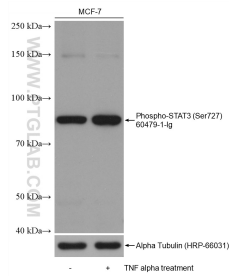
Immunofluorescent analysis of (4% PFA) fixed untreated HeLa cells, UV (1 hour) and 100 nM Calyculin A (30 minutes) treated HeLa cells using Phospho-STAT3 (Ser727) antibody (60479-1-Ig, Clone: 2G11G11) at dilution of 1:1000 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004). This data was developed using the same antibody clone with 60479-1-PBS in a different storage buffer formulation.



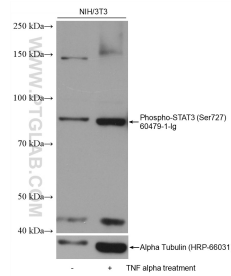
UV treated and untreated HeLa cells were subjected to SDS PAGE followed by western blot with 60479-1-Ig (Phospho-STAT3 (Ser727) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with HRP-conjugated Alpha Tubulin (HRP-66031) antibody as a loading control. This data was developed using the same antibody clone with 60479-1-PBS in a different storage buffer formulation.



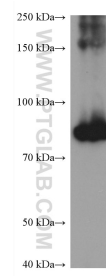
EGF treated and untreated A549 cells were subjected to SDS PAGE followed by western blot with 60479-1-Ig (Phospho-STAT3 (Ser727) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with HRP-conjugated Alpha Tubulin (HRP-66031) antibody as a loading control. This data was developed using the same antibody clone with 60479-1-PBS in a different storage buffer formulation.



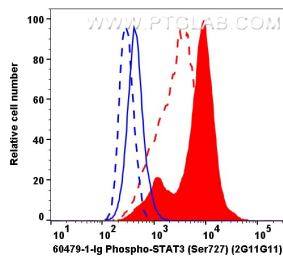
TNF alpha (HZ-1014) treated and untreated MCF-7 cells were subjected to SDS PAGE followed by western blot with 60479-1-Ig (Phospho-STAT3 (Ser727) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with HRP-conjugated Alpha Tubulin (HRP-66031) antibody as a loading control. This data was developed using the same antibody clone with 60479-1-PBS in a different storage buffer formulation.



TNF alpha (HZ-1014) treated and untreated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 60479-1-Ig (Phospho-STAT3 (Ser727) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with HRP-conjugated Alpha Tubulin (HRP-66031) antibody as a loading control. This data was developed using the same antibody clone with 60479-1-PBS in a different storage buffer formulation.



UV treated HSC-T6 cells were subjected to SDS PAGE followed by western blot with 60479-1-Ig (STAT3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 60479-1-PBS in a different storage buffer formulation.



1x10<sup>6</sup> untreated HeLa cells (dash lines), UV (1 hour) and 100 nM Calyculin A (30 minutes) treated HeLa cells (full lines) were intracellularly stained with 0.1 µg Phospho-STAT3 (Ser727) Monoclonal antibody (60479-1-Ig, Clone: 2G11G11, red) and Multi-rAb CoraLite® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM005). Mouse IgG2a isotype control Mouse McAb (66360-2-Ig, Clone: 11A1B2, blue) was parallel stained as control.