For Research Use Only

Phospho-STAT3 (Ser727) Monoclonal antibody

Catalog Number:60479-1-Ig

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
60479-1-Ig

Size:
100ul , Concentration: 1000 μg/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

Recommended Dilutions:
WB 1:5000-1:50000
IF/ICC 1:500-1:2000

Applications

Tested Applications:
WB, IF/ICC, FC (Intra), ELISA

Species Specificity:
human, mouse, rat

Positive Controls:

WB : HeLa cells, A549 cells, UV treated HSC-T6 cells, MCF-7 cells, NIH/3T3 cells, EGF treated A549 cells, UV treated HeLa cells, TNF alpha treated MCF-7 cells

IF/ICC : UV(1hour),100 nM Calyculin A(30 minutes)treated HeLa cells, HeLa 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. 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.

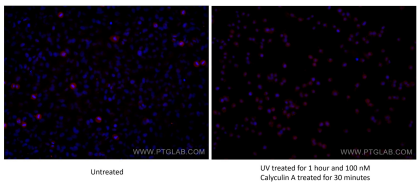
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

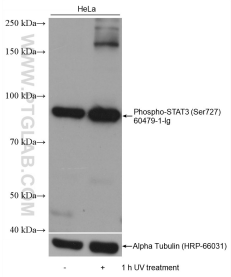
*** 20ul sizes contain 0.1% BSA

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
W: ptglab.com

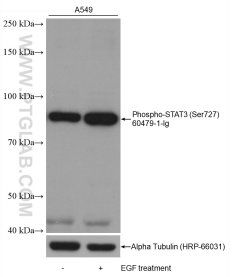
Selected Validation Data



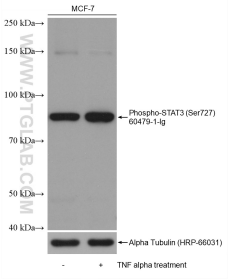
Immunofluorescent analysis of (4% PFA) fixed untreated HeLa cells, UV (1 hour) and 100 nM Calyculin A (30 minutes) treated HeLa cells using Phospho-STAT3 (Ser727) antibody (60479-1-Ig, Clone: 2G11G11) at dilution of 1:1000 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



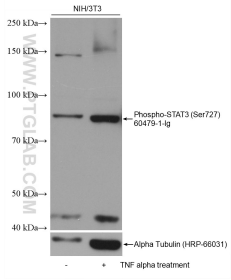
UV treated and untreated HeLa cells were subjected to SDS PAGE followed by western blot with 60479-1-Ig (Phospho-STAT3 (Ser727) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with HRP-conjugated Alpha Tubulin (HRP-66031) antibody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



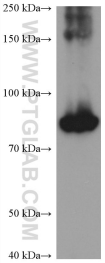
EGF treated and untreated A549 cells were subjected to SDS PAGE followed by western blot with 60479-1-Ig (Phospho-STAT3 (Ser727) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with HRP-conjugated Alpha Tubulin (HRP-66031) antibody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



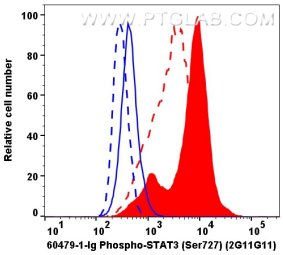
TNF alpha (HZ-1014) treated and untreated MCF-7 cells were subjected to SDS PAGE followed by western blot with 60479-1-Ig (Phospho-STAT3 (Ser727) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with HRP-conjugated Alpha Tubulin (HRP-66031)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



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.



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.



1x10^6 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.