For Research Use Only

## STAT3 Monoclonal antibody

Catalog Number:60199-1-lg Featured Product

64 Publications



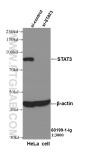
| Basic Information      | Catalog Number:<br>60199-1-lg   | GenBank Accession Number:<br>BC000627  | Purification Method:<br>Protein A purification  |  |
|------------------------|---|--|---|--|
|                        | Size:   | GenelD (NCBI):   | CloneNo.:   |  |
|                        | 1557 µg/ml  | 6774   | 3G2D12  |  |
|                        | Source:<br>Mouse  | UNIPROT ID:<br>P40763  | Recommended Dilutions:<br>WB 1:1000-1:6000  |  |
|                        | Isotype:<br>IgG2a   | Full Name:IP 0.5-4.0 ug for 1.0-3.0 mg of totalsignal transducer and activator of<br>transcription 3 (acute-phase response<br>factor)protein lysateIHC 1:50-1:500<br>IF 1:50-1:500   |   |  |
|                        | Immunogen Catalog Number:<br>AG0360   |  |   |  |
|                        |   | Calculated MW:<br>770 aa, 88 kDa   |   |  |
|                        |   | Observed MW:<br>70-88 kDa  | erved MW:   |  |
| Applications           | Tested Applications:  | Positive   | Positive Controls:  |  |
|                        | FC, IF/ICC, IHC, IP, WB, ELISA  | WB: A5   | WB : A549 cells, HeLa cells, Jurkat cells<br>IP : HeLa cells,<br>IHC : human cervical cancer tissue, human heart tissu<br>human breast cancer tissue, human endometrial<br>cancer tissue, human liver tissue, human lung cancer<br>tissue<br>IF : HepG2 cells,  |  |
|                        | Cited Applications:<br>WB, IP, IF, IHC, CoIP  | IP : HeLa  |   |  |
|                        | Species Specificity:<br>human, rat  | human  |   |  |
|                        | Cited Species:<br>human, rat, zebrafish   | tissue   |   |  |
|                        | Note-IHC: suggested antigen retrieval with<br>TE buffer pH 9.0; (*) Alternatively, antigen<br>retrieval may be performed with citrate<br>buffer pH 6.0  |  |   |  |
|                        | TE buffer pH 9.0; (*) Altern<br>retrieval may be performed  | atively, antigen   |   |  |
| Background Information | TE buffer pH 9.0; (*) Altern<br>retrieval may be performed<br>buffer pH 6.0<br>Signal transducer and activator of<br>MGC 16063) is a member of the ST<br>members are phosphorylated by<br>translocate to the cell nucleus wh<br>phosphorylation in response to va<br>STAT3 mediates the expression of<br>cellular processes such as cell gro<br>the activity of STAT3. This antibo  | atively, antigen<br>d with citrate<br>f transcription 3 (acute-phase respon<br>IAT protein family. In response to cy<br>the receptor associated kinases, and<br>ere they act as transcription activate<br>arious cytokines and growth factors i<br>of a variety of genes in response to co<br>bowth and apoptosis. The small GTPas<br>dy is a mouse monoclonal antibody  | se factor) (STAT3, synonyms: APRF, FLJ2088<br>tokines and growth factors, STAT family<br>then form homo- or heterodimers that<br>ors. STAT3 is activated through<br>ncluding IFNs, EGF, IL5, IL6, HGF, LIF and BM<br>ell stimuli, and thus plays a key role in many<br>se Rac1 has been shown to bind and regulate<br>raised against residues near the N terminus<br>of each isoform respectively is 83 kDa, 87 k |  |
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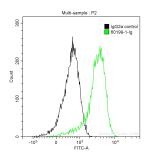
al validation data for this product please co E: Proteintech-CN@ptglab.com W: ptgcn.com

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

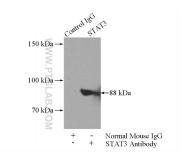
## Selected Validation Data



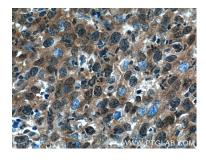
WB result of STAT3 antibody (60199-1-lg, 1:3000) with si-Control and si-STAT3 transfected HeLa cells.



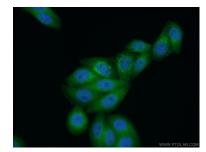
1X10^6 HepG2 cells were intracellularly stained with 0.5 ug Anti-Human STAT3 (60199-1-lg, Clone:3G2D12) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), and 0.5 ug Mouse IgG2a Isotype Control (66360-2-lg, Clone: K11A1B2A2) (black). Cells were fixed with 4% PFA and permeabilized with 0.1% TritonX-100.



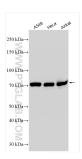
IP result of anti-STAT3 (IP:60199-1-Ig, 5ug; Detection:60199-1-Ig 1:2000) with HeLa cells lysate 1400ug.



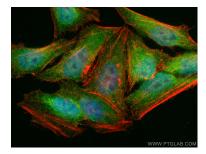
Immunohistochemical analysis of paraffinembedded human cervical cancer tissue slide using 60199-1-Ig (STAT3 Antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (10% Formaldehyde ) fixed HepG2 cells using 60199-1-Ig(STAT3 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 60199-1-Ig (STAT3 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using STAT3 antibody (60199-1-Ig, Clone: 3G2D12) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).