For Research Use Only

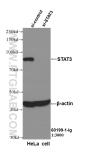
STAT3 Monoclonal antibody

Catalog Number:60199-1-lg Featured Product 65 Publications

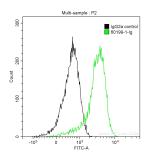


	Catalog Number: 60199-1-lg	GenBank Accession Number: BC000627	Purification Method: Protein A purification	
	Size:	GenelD (NCBI):	CloneNo.:	
	150ul , Concentration: 1557 µg/ml by	6774	3G2D12	
	Nanodrop and 1093 µg/ml by Bradford method using BSA as the standard;	^J UNIPROT ID: P40763	Recommended Dilutions: WB 1:1000-1:6000	
	Mouse	Full Name: signal transducer and activator of transcription 3 (acute-phase response	IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500	
				lgG2a
	Immunogen Catalog Number: AG0360	Calculated MW: 770 aa, 88 kDa Observed MW: 70-88 kDa		
	Applications	Tested Applications:	Positive Controls:	
Cited Applications: IP : HeLa cel WB, IP, IF, IHC, CoIP		49 cells, HeLa cells, Jurkat cells		
Species Specificity: human, rat		IHC : human cervical cancer tissue, human heart ti human breast cancer tissue, human endometrial		
Cited Species: tissue		sue, human liver tissue, human lung cancer		
human, rat, zebrafish		IF : HepG	2 cells,	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
Background Information	Signal transducer and activator of transcription 3 (acute-phase response factor) (STAT3, synonyms: APRF, FLJ20882, MGC 16063) 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 mouse monoclonal 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.			
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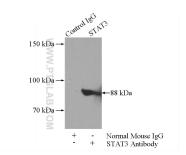
Selected Validation Data



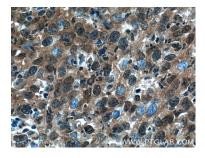
WB result of STAT3 antibody (60199-1-lg, 1:3000) with si-Control and si-STAT3 transfected HeLa cells.



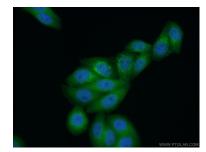
1X10^6 HepG2 cells were intracellularly stained with 0.5 ug Anti-Human STAT3 (60199-1-lg, Clone:3G2D12) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), and 0.5 ug Mouse IgG2a Isotype Control (66360-2-lg, Clone: K11A1B2A2) (black). Cells were fixed with 4% PFA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



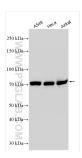
IP result of anti-STAT3 (IP:60199-1-Ig, 5ug; Detection:60199-1-Ig 1:2000) with HeLa cells lysate 1400ug.



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).