For Research Use Only

STAT2 Monoclonal antibody

Catalog Number:66485-1-lg 4 Publications



Basic Information

Catalog Number: GenBank Accession Number:

66485-1-lg Protein A purification BC051284 GeneID (NCBI): CloneNo.: Size:

150ul, Concentration: 1300 µg/ml by 6773 1G12C4 Nanodrop and 1000 µg/ml by Bradford_{Full Name}: Recommended Dilutions:

method using BSA as the standard: signal transducer and activator of transcription 2, 113kDa

Mouse Calculated MW: 851 aa, 98 kDa Isotype: lgG1 Observed MW:

113 kDa Immunogen Catalog Number:

AG10168

IHC: human breast cancer tissue,

WB 1:1000-1:4000 IHC 1:200-1:800 IF 1:400-1:1600

Purification Method:

Applications

Tested Applications: Positive Controls: IF, IHC, WB, ELISA

WB: HeLa cells, A431 cells, A549 cells, PC-3 cells, **Cited Applications:**

COLO 320 cells IF, IP, WB

Species Specificity: IF: Ramos cells, Human, mouse, rat

Cited Species: human, mouse, pig

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

STAT2, also named as p113, belongs to the transcription factor STAT family. It is a signal transducer and activator of transcription that mediates signaling by type I IFNs (IFN-alpha and IFN-beta). Following type I IFN binding to cell surface receptors, Jak kinases (TYK2 and JAK1) are activated, leading to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize and associate with ISGF3G/IRF-9 to form a complex termed ISGF3 transcription factor, that enters the nucleus. ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of IF stimulated genes, which drive the cell in an antiviral state. It also interacts with CRSP2, ${\it CRSP6, Simian virus 5 protein V, rabies virus phosphoprotein, IFNAR1 and IFNAR2. Its interaction with dengue virus and IFNAR2 and IFNAR2 and IFNAR2 are also as a supplied of the protein of the pro$ NS5 inhibits the phosphorylation of STAT2, and, when all viral proteins are present (polyprotein), STAT2 is targeted for degradation. The calculated molecular weight of STAT2 is 98 kDa, but phosphorylated STAT2 is about 100-113

Notable Publications

Author	Pubmed ID	Journal	Application
Huimin Liu	36315588	PLoS Pathog	WB,IP
Hanrui Yu	37931772	Exp Eye Res	WB
Qinyan Tang	37741128	Int Immunopharmacol	WB,IF

Storage

Storage:

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

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

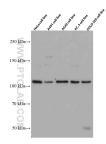
For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free

in USA), or 1(312) 455-8498 (outside USA)

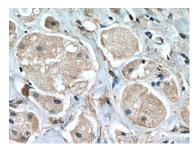
E: proteintech@ptglab.com W: ptglab.com

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

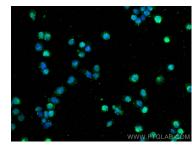
Selected Validation Data



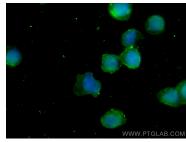
Various lysates were subjected to SDS PAGE followed by western blot with 66485-1-1g (STAT2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 66485-1-Ig (STAT2 antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed Ramos cells using STAT2 antibody (66485-1-lg, Clone: 1G12C4) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed Ramos cells using STAT2 antibody (66485-1-1g, Clone: 1G12C4) at dilution of 1:800 and CoraLite®488-Conjugated Affini Pure Goat Anti-Mouse IgG(H+L).