For Research Use Only

STAT2 Polyclonal ANTIBODY

Catalog Number:16674-1-AP 3 Publications

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Basic Information

Catalog Number:
16674-1-AP

Size:
40 µg/150 µl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:
AG10168

GenBank Accession Number:
BC051284

GeneID (NCBI):
6773

Full Name:
signal transducer and activator of transcription 2, 113kDa

Calculated MW:
851aa,98 kDa

Observed MW:
113 kDa

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
IHC 1:20-1:200

Applications

Tested Applications:
IHC, IP, WB, ELISA

Cited Applications:
WB

Species Specificity:
human

Cited Species:
human

Note: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells; HT-1080 cells, K-562 cells

IP : HeLa cells;

IHC : human breast cancer tissue; human lung cancer tissue

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 interferon stimulated genes, which drive the cell in an antiviral state. It also interacts with CRSP2, CRSP6, Simian virus 5 protein V, rabies virus phosphoprotein, IFNAR1 and IFNAR2. Its interaction with dengue virus NS5 inhibits the phosphorylation of STAT2, and, when all viral proteins are present (polyprotein), STAT2 is targeted for degradation. This antibody is a rabbit polyclonal antibody raised against residues near the C terminus of human STAT2. The calculated molecular weight of STAT2 is 98 kDa, but phosphorylated STAT2 is about 100-113 kDa.

Notable Publications

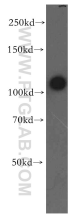
Author	Pubmed ID	Journal	Application
Orawan Wonganan	29031523	Toxicol Appl Pharmacol	WB
Ighodaro Igbe	29371942	Oncotarget	WB
Joshua D Jackson	26883073	Mol Cancer Res	WB

Storage

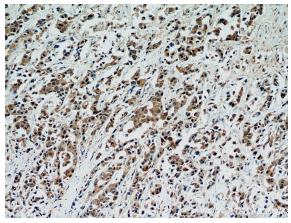
Storage:
Store at -20ºC. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20˚C storage

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

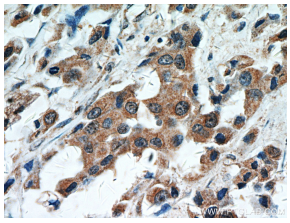
Selected Validation Data



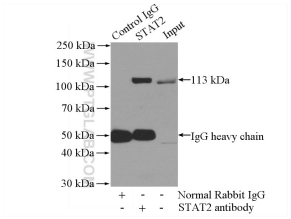
HeLa cells were subjected to SDS PAGE followed by western blot with 16674-1-AP(STAT2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours



Immunohistochemical of paraffin-embedded human breast cancer using 16674-1-AP(STAT2 antibody) at dilution of 1:50 (under 10x lens)



Immunohistochemical of paraffin-embedded human breast cancer using 16674-1-AP(STAT2 antibody) at dilution of 1:50 (under 40x lens)



IP Result of anti-STAT2 (IP:16674-1-AP, 4ug; Detection:16674-1-AP 1:500) with HeLa cells lysate 2800ug.