

For Research Use Only

STAT4 Polyclonal antibody

Catalog Number: 51070-2-AP **1 Publications**



Basic Information

Catalog Number: 51070-2-AP	GenBank Accession Number: BC031212	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 493 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 6775	Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500 IF 1:20-1:200
Source: Rabbit	Full Name: signal transducer and activator of transcription 4	
Isotype: IgG	Calculated MW: 748 aa, 86 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls: WB : HeLa cells, K-562 cells IHC : human cervical cancer tissue, human testis tissue, rat testis tissue, mouse testis tissue IF : HeLa cells,
Cited Applications: WB	
Species Specificity: human, mouse, rat	
Cited Species: mouse	
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

The JAK/STAT pathway is an extensive signaling pathway downstream of cytokine receptors. STATs are cytosolic proteins with a common structure consisting of an N-terminal oligomerization domain, which favors formation of STAT dimers, followed by a DNA-binding domain and a C-terminal SRC homology-2 (SH2) domain, which is involved in association between STATs and receptors [PMID:22383755]. Signal Transducer and Activator of Transcription 4 (STAT4) is a transcription factor that is activated by IL-12 signaling and promotes Th1-cell differentiation and IFN- γ production [PMID:21998209].

Notable Publications

Author	Pubmed ID	Journal	Application
James P Hewitson	32321759	J Immunol	WB

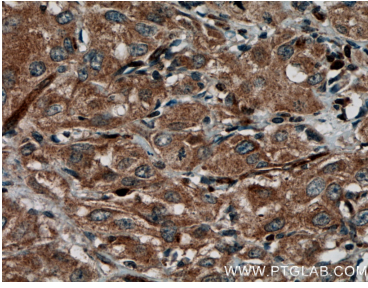
Storage

Storage:
Store at -20°C.
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

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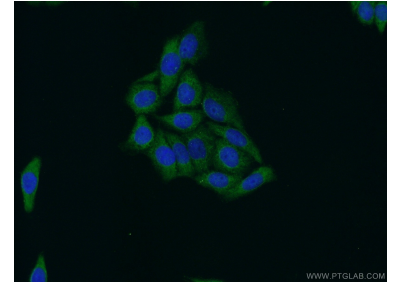
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 51070-2-AP (STAT4 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



HeLa cells were subjected to SDS PAGE followed by western blot with 51070-2-AP (STAT4 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HeLa cells using 51070-2-AP (STAT4 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).