

For Research Use Only

STAT4 Monoclonal antibody, PBS Only

Catalog Number: 67568-2-PBS



Basic Information

Catalog Number: 67568-2-PBS	GenBank Accession Number: BC031212	Purification Method: Protein G purification
Size: 100ug, Concentration: 1mg/ml by Nanodrop;	GeneID (NCBI): 6775	CloneNo.: 4A8C9
Source: Mouse	UNIPROT ID: Q14765	
Isotype: IgG1	Full Name: signal transducer and activator of transcription 4	
Immunogen Catalog Number: AG19545	Calculated MW: 748 aa, 86 kDa	
	Observed MW: 86 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), Indirect ELISA

Species Specificity:
human, mouse, rat

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].

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS Only

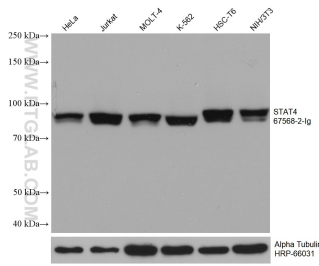
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

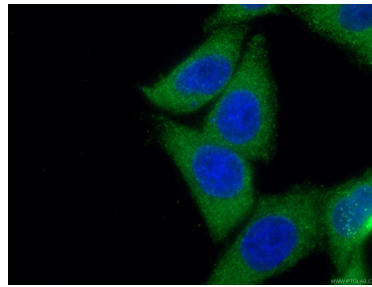
E: proteintech@ptglab.com
W: ptglab.com

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

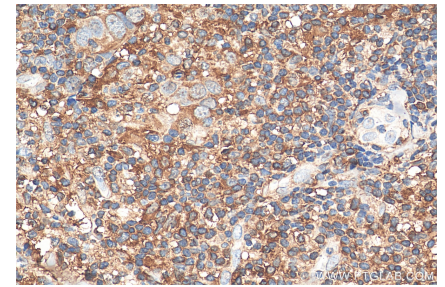
Selected Validation Data



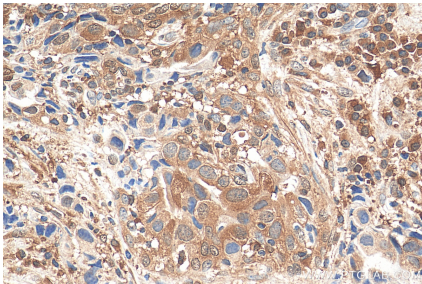
Various lysates were subjected to SDS PAGE followed by western blot with 67568-2-Ig (STAT4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control. This data was developed using the same antibody clone with 67568-2-PBS in a different storage buffer formulation.



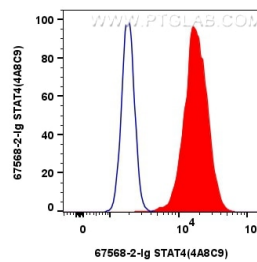
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 67568-2-Ig (STAT4 antibody), at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 67568-2-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67568-2-Ig (STAT4 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 67568-2-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67568-2-Ig (STAT4 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 67568-2-PBS in a different storage buffer formulation.



1x10⁶ HepG2 cells were intracellularly stained with 0.4 ug STAT4 Monoclonal antibody (67568-2-Ig, Clone:4A8C9) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 67568-2-PBS in a

