For Research Use Only

Phospho-STAT5A (Tyr694)/STAT5B (Tyr699) Recombinant monoclonal antibody

Catalog Number:80115-1-RR 17 Publications

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Basic Information

Catalog Number:
80115-1-RR

Size:
100ul , Concentration: 500 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC027036

GeneID (NCBI):
6776

UNIPROT ID:
P42229

Full Name:
signal transducer and activator of transcription 5A

Calculated MW:
794 aa, 92 kDa

Observed MW:
90-95 kDa

Purification Method:
Protein A purification

CloneNo.:
2P21

Recommended Dilutions:
WB: 1:2000-1:10000
FC (Intra): 0.06 ug per 10^6 cells in a 100 ul suspension

Applications

Tested Applications:
WB, FC (Intra), ELISA

Cited Applications:
WB, IHC

Species Specificity:
human

Cited Species:
human, mouse, pig

Positive Controls:

WB : GM-CSF treated TF-1 cells,

FC (Intra) : GM-CSF treated TF-1 cells,

Background Information

STAT5A, also named as STAT5, belongs to the transcription factor STAT 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. STAT5A is activated by, and mediates the responses of many cell ligands, such as IL2, IL3, IL7 GM-CSF, erythropoietin, thrombopoietin, and different GHs. Phosphorylation at Tyr694 is obligatory for Stat5 activation. Activation of STAT5A in myeloma and lymphoma associated with a TEL/JAK2 gene fusion is independent of cell stimulus and has been shown to be essential for the tumorigenesis. The mouse counterpart of human STAT5A is found to induce the expression of BCL2L1/BCL-X(L), which suggests the antiapoptotic function of STAT5A in cells.

Notable Publications

Author	Pubmed ID	Journal	Application
Guanyang Chen	35502613	Bioengineered	WB
Minjiang Chen	42773607	Adv Healthc Mater	WB
Yipeng Pang	42593119	mBio	WB

Storage

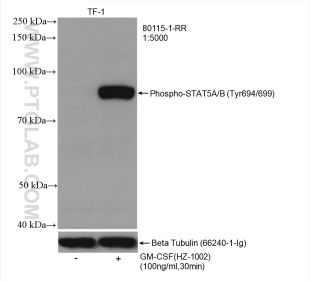
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

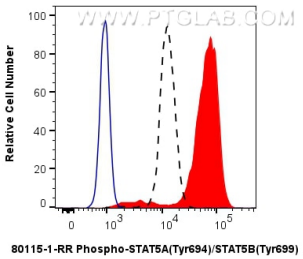
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



Non-treated TF-1 and GM-CSF (HZ-1002) treated TF-1 cells were subjected to SDS PAGE followed by western blot with 80115-1-RR (Phospho-STAT5A (Tyr694)/STAT5B (Tyr699) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Tubulin antibody as loading control.



1X10^6 TF-1 cells untreated (dashed lines) or treated with GM-CSF which intracellularly stained with 0.06 ug Phospho-STAT5A (Tyr694)/STAT5B (Tyr699) Recombinant antibody (80115-1-RR, Clone:2P21) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.06 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.