

CoraLite®594-conjugated Phospho-STAT5A (Tyr694)/STAT5B (Tyr699) Recombinant antibody

Catalog Number: CL594-80115

Basic Information

Catalog Number:

CL594-80115

Size:

1000 µg/ml

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

Excitation/Emission maxima wavelengths:

588 nm / 604 nm

Applications

Tested Applications:

FC (Intra)

Species Specificity:

human

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.

Storage

Storage:

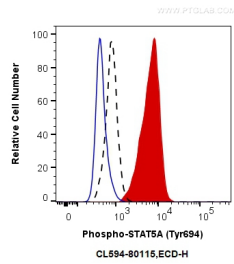
Store at -20°C. Avoid exposure to light.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



1X10⁶ TF-1 cells untreated (dashed lines) or treated with GM-CSF (red) were intracellularly stained with 0.03 ug CoraLite®594 Anti-Human Phospho-STAT5A/B (Tyr694/699) (CL594-80115, Clone:2P21), or 0.03 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.