Recombinant Phospho-Stat5 (Tyr694) Monoclonal Antibody

catalog number: AN300379L

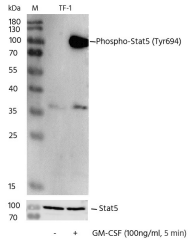
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human
Immunogen	A synthetic phosphopeptide corresponding to residues around Tyr694 of human Phospho-Stat5.
Host	Rabbit
Isotype	IgG
Clone	B305
Purification	Protein A
Buffer	10 mM sodium HEPES, 150 mM NaCl, 100 μg/mL protein protectant, 50% glycerol, pH 7.5

Applications	Recommended Dilution
WB	1:2000-1:200000

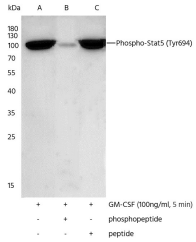
Data



Western blot analysis of extracts from serum-starved TF-1, untreated (-) or treated with GM-CSF (100 ng/mL, 5 min; +), using Phospho-Stat5 (Tyr694) Antibody, Rabbit MAb at 1:1000 dilution. (upper) or Anti-STAT5a Antibody, Rabbit PAb, Antigen Affinity Purified at 1:500 dilution(lower).

Observed-MW:100 kDa

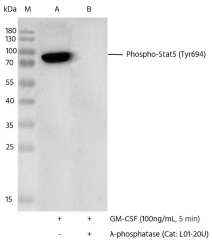
Calculated-MW:90 kDa



Western blot analysis of extracts from serum-starved TF-1 treated with GM-CSF (100ng/ml, 5min; +), without peptide (line A) or antigen-specific phosphopeptide (line B) or antigen-specific peptide (line C) using Phospho-Stat5 (Tyr694) Antibody, Rabbit MAb at 1:10000 dilution.

Observed-MW:100 kDa

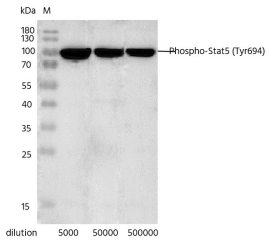
Calculated-MW:90 kDa



Western blot analysis of extracts from serum-starved TF-1, treated with GM-CSF (100 ng/mL, 5 min) (line A); treated with GM-CSF and λ-phosphatase (line B) using Phospho-Stat5 (Tyr694) Antibody, Rabbit MAb at 1:10000 dilution.

Observed-MW:100 kDa

Calculated-MW:90 kDa



Western blot analysis of extracts from serum-starved TF-1 treated with GM-CSF (10 0ng/mL, 5 min), using Phospho-Stat5 (Tyr694) Antibody, Rabbit MAb at 1:5000, 1:50000, 1:500000 dilution.

Observed-MW:100 kDa

Calculated-MW:90 kDa

Preparation & Storage

Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Shipping	Ice bag

Background

The protein encoded by this gene is a member of the STAT family of transcription factors. 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. This protein is activated by, and mediates the responses of many cell ligands, such as IL2, IL3, IL7 GM-CSF, erythropoietin, thrombopoietin, and different growth hormones. Activation of this protein in myeloma and lymphoma associated with a TEL/JAK2 gene fusion is independent of cell stimulus and has been shown to be essential for tumorigenesis. The mouse counterpart of this gene is found to induce the expression of BCL2L1/BCL-X(L), which suggests the antiapoptotic function of this gene in cells. Alternatively spliced transcript variants have been found for this gene.

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