

## Product Datasheet

# Phospho-Stat5 (Y694) Antibody



Catalog No: CY5569

Reactivity: Human Mouse

Isotype: Rabbit IgG

Applications: WB IHC

### Information

**UniProt ID:** P42229/P51692

**All Names:** Signal transducer and activator of transcription 5A; STAT5; STAT5A; STAT5B; Transcription factor STAT5A; Transcription factor STAT5B; MGF;

**Form:** Liquid

**Storage instructions:** Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

**Storage buffer:** pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

**Purity:** Affinity-chromatography

**Immunogen:** A synthesized peptide

**Molecular Wt.:** 90 kDa

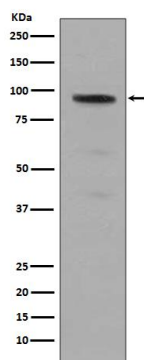
### Application

WB: 1:500~1:2000

IHC: 1:50~1:200

### Background

Stat5 is activated in response to a wide variety of ligands including IL-2, GM-CSF, growth hormone and prolactin. Phosphorylation at Tyr694 is obligatory for Stat5 activation. This phosphorylation is mediated by Src upon erythropoietin stimulation. Stat5 is constitutively active in some leukemic cell types. Phosphorylated Stat5 is found in some endothelial cells treated with IL-3, which suggests its involvement in angiogenesis and cell motility. Stat5a and Stat5b are independently regulated and activated in various cell types. For instance, interferon treatment predominantly activates Stat5a in U-937 cells and Stat5b in HeLa cells.



Western blot analysis of Phospho-Stat5 (Y694) expression in A431 cell lysate treated with EGF.

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