



# STAT3 (Phospho-Ser727) Antibody

## #11046

**Catalog Number:** 11046-1, 11046-2

**Amount:** 50µg/50µl, 100µg/100µl

**Swiss-Prot No. :** P40763

**Form of Antibody:** Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

**Storage/Stability:** Store at -20°C/1 year

**Immunogen:** The antiserum was produced against synthesized phosphopeptide derived from human STAT3 around the phosphorylation site of serine 727 (P-M-S<sub>P</sub>-P-R).

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

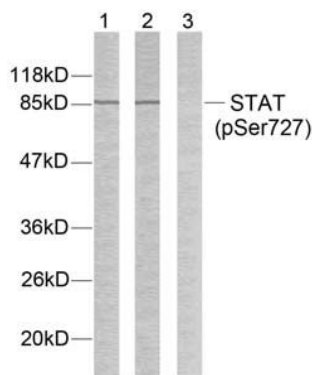
**Specificity/Sensitivity:** STAT3(Phospho-Ser727) antibody detects endogenous levels of STAT3 only when phosphorylated at serine 727

**Reactivity:** Human, Mouse, Rat

**Applications:**

Predicted MW: 88 kd

WB: 1:500~1:2000 IHC: 1:50~1:200 IF: 1:100~1:200

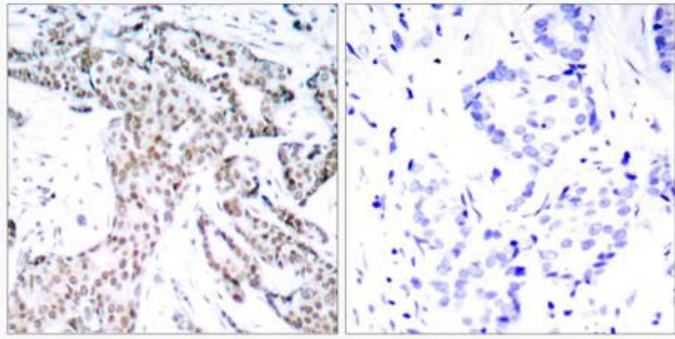


Peptide - + -

P-Peptide - - +

Western blot analysis of extracts from HeLa cells using

STAT3 (phospho-Ser727) antibody (#11046).

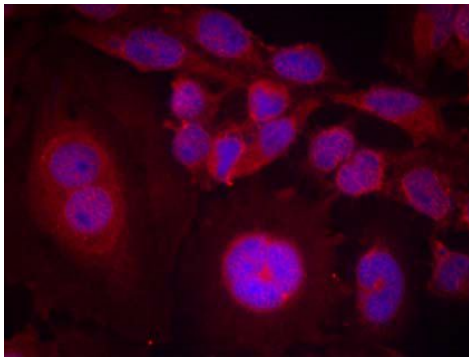


P-Peptide - +

Immunohistochemical analysis of paraffin- embedded

human breast carcinoma tissue using STAT3 (phospho-

Ser727) antibody (#11046).



Immunofluorescence staining of methanol-fixed HeLa cells using

STAT3 (phospho-Ser727) antibody(#11046, Red).

#### **Background :**

Transcription factor that binds to the interleukin-6 (IL-6)-responsive elements identified in the promoters of various acute-phase protein genes. Activated by IL31 through IL31RA

#### **References:**

H Yamaguchi, J Zhu, T Yu, et al. (2006) Low-level bisphenol A increases production of glial fibrillary acidic protein in differentiating astrocyte progenitor cells through excessive STAT3 and Smad1 activation. *Toxicology*, 226:131-142.

This article references the use of the **#11046** in the following applications :**Western blotting**

Catlett-Falcone R, et al. (1999) *Immunity*. 10: 105-115.