

## Stat3 (phospho-Y705) polyclonal antibody

Catalog: BS4181

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Membrane receptor signaling by various ligands, including interferons and growth hormones such as EGF, induces activation of JAK kinases which then leads to tyrosine phosphorylation of the various Stat transcription factors. Stat1 and Stat2 are induced by IFN- $\alpha$  and form a heterodimer which is part of the ISGF3 transcription factor complex. Although early reports indicate Stat3 activation by EGF and IL-6, it has been shown that Stat3 $\beta$  appears to be activated by both while Stat3 $\alpha$  is activated by EGF, but not by IL-6. Highest expression of Stat4 is seen in testis and myeloid cells. IL-12 has been identified as an activator of Stat4. Stat5 has been shown to be activated by Prolactin and by IL-3. Stat6 is involved in IL-4 activated signaling pathways.

### Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

### Molecular Weight:

~ 88 kDa

### Swiss-Prot:

P40763

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

IP: 1:50~1:200

### Storage&Stability:

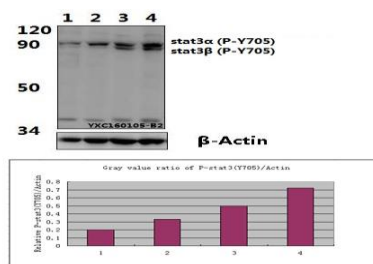
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

p-Stat3 (Y705) polyclonal antibody detects endogenous

levels of Stat3 protein only when phosphorylated at Tyr705

### DATA:



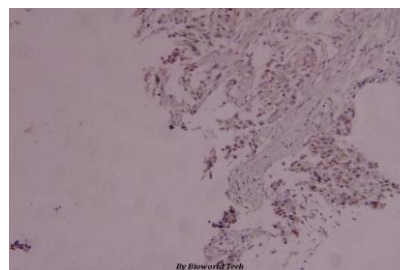
Western blot (WB) analysis of Stat3 (phospho-Y705) polyclonal antibody at 1:500 dilution

Lane1:Hela whole cell lysate(40 $\mu$ g)

Lane2:Hela treated with IFN- $\gamma$ (100ng/ml, 30min) whole cell lysate(40 $\mu$ g)

Lane3:Jurkat whole cell lysate(40 $\mu$ g)

Lane4:Jurkat treated with H2O2(100nM/ml, 30min) whole cell lysate(40 $\mu$ g)



Immunohistochemistry (IHC) analyzes of p-STAT3 (Y705) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.

### Note:

For research use only, not for use in diagnostic procedure.

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