

## STAT3(Phospho-Tyr705) Antibody

Catalog No: #11045



Package Size: #11045-1 50ul #11045-2 100ul #11045-4 25ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

## Description

Product Name	STAT3(Phospho-Tyr705) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of STAT3 only when phosphorylated at tyrosine 705.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 705 (A-P-Y(p)-L-K) derived from Human STAT3.
Target Name	STAT3
Modification	Phospho-Tyr705
Other Names	APRF; Acute-phase response factor; HIES
Accession No.	Swiss-Prot: P40763NCBI Protein: NP_003141.2
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL 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	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

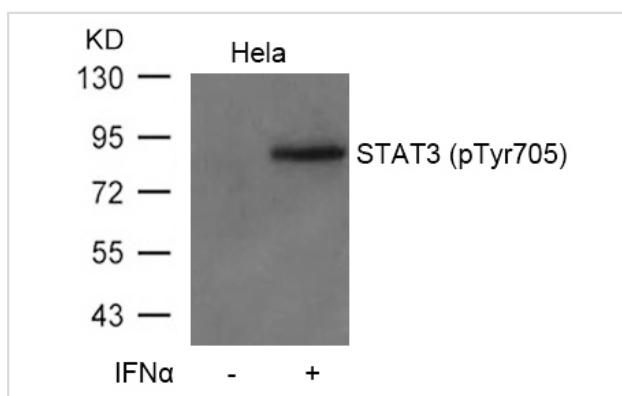
## Application Details

Predicted MW: 88kd

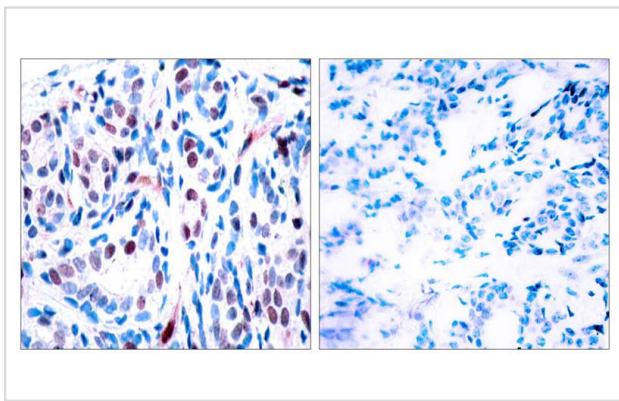
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

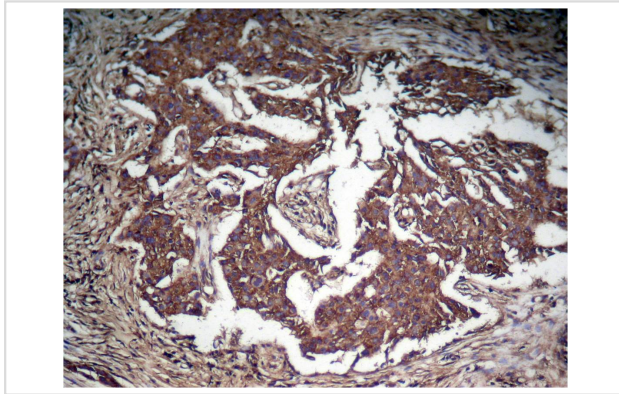
## Images



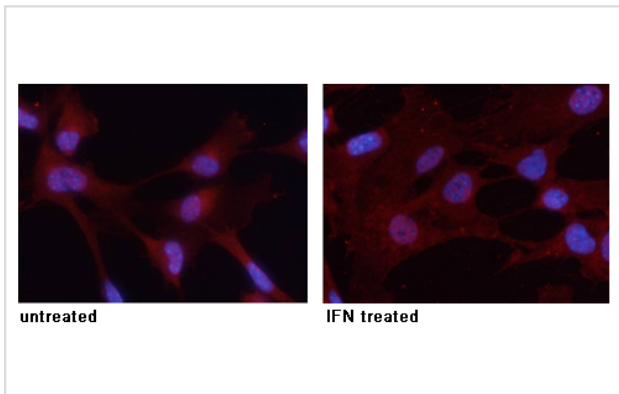
Western blot analysis of extracts from HeLa cells untreated or treated with IFN $\alpha$  using STAT3(Phospho-Tyr705) Antibody #11045.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using STAT3 (Phospho-Tyr705) Antibody #11045 (left) or the same antibody preincubated with blocking peptide #51045 (right).



Immunohistochemical analysis of paraffin-embedded human Lung carcinoma tissue using STAT3 (Phospho-Tyr705) Antibody #11045.



Immunofluorescence staining of methanol-fixed MEF cells untreated or treated with IFN using STAT3 (Phospho-Tyr705) Antibody #11045.

## 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.

Fan G, et al. (2003) J Biol Chem. 278(52): 52432-52436.

Barry FA, et al. (2003) FEBS Lett. 553(1-2): 173-178.

Welsh, et al. (1996) Trends Cell Biol. 6: 274-279.

Srivastava A K, et al. (1998) Mol Cell Biochem. 182: 135-141.

## Published Papers

Emilio GarcB" B a-Prieto, AdriB" B'n GonzB" B'lez-LB" B pez, Sandra Cabrera et al., Resistance to Bleomycin-Induced Lung Fibrosis in MMP-8 Deficient Mice Is Mediated by Interleukin-10. , PLoS ONE, 5(10): e13242(2010)

PMID:20949050

Feng-Ze Wang, Peng-Jiao, Na-Na Yang et al., PF-04691502 triggers cell cycle arrest, apoptosis and inhibits the angiogenesis in hepatocellular carcinoma cells, Toxicology Letters, 220:150B" C 156(2013)

PMID:23639247

H Yamaguchi, J Zhu, T Yu et al., 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(2006)

[PMID:16860915](#)

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Jian-Guo Zhang, Jing Zhao, Yan Xin et al., Significance and relationship between Cripto-1 and p-STAT3 expression in gastric cancer and precancerous lesions., *World J Gastroenterol*, 16(5): 571B-C577.(2010)

[PMID:20128024](#)

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Libing Ma, Jinxiu Li, Guyi Wang et al., Atrial natriuretic peptide suppresses Th17 development through regulation of cGMP-dependent protein kinase and PI3K/CAkt signaling pathways., *Regulatory Peptides*., 181:9B-C16(2013)

[PMID:23327998](#)

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Takuya Takeichi, Kazumitsu Sugiura, Yoshinao Muro et al., Overexpression of LEDGF/DFS70 Induces IL-6 via p38 Activation in HaCaT Cells, Similar to that Seen in the Psoriatic Condition., *Journal of Investigative Dermatology*, 130(12):2760-2767(2010)

[PMID:20631726](#)

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.