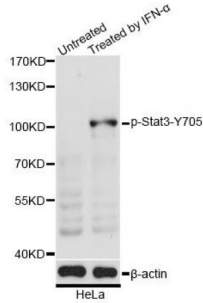


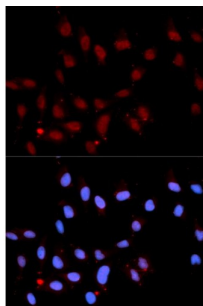
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Stat3 (pY705) Antibody

Catalogue No.: abx000144



Western blot analysis of extracts of HeLa cells, using Phospho-Stat3-Y705 antibody (abx000144) at 1/2000 dilution. HeLa cells were treated by IFN- α (100ng/ml) for 30 minutes after serum-starvation overnight.



Immunofluorescence analysis of U2OS cells using Phospho-Stat3-Y705 antibody (abx000144). Blue: DAPI for nuclear staining.

Stat3 (pY705) Antibody is a Rabbit Polyclonal antibody against Stat3 (pY705). The protein encoded by this gene is a member of the STAT protein family. 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 through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. Three alternatively spliced transcript variants encoding distinct isoforms have been described.

Target: Stat3 (pY705)

Reactivity: Human

Host: Rabbit

Clonality: Polyclonal

Tested Applications: WB, IF/ICC

Recommended dilutions: WB: 1/500 - 1/2000, IF/ICC: 1/50 - 1/200. Optimal dilutions/concentrations should be determined by the end user.

Immunogen: Synthetic Peptide. A phospho specific peptide corresponding to residues surrounding Tyr705 of human Stat3.

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Purification:	Affinity purified.
Form:	Liquid
Isotype:	IgG
Conjugation:	Unconjugated
Storage:	Aliquot and store at -20 °C. Avoid repeated freeze/thaw cycles.
Molecular Weight:	Calculated MW: 83 kDa/87 kDa/88 kDa Observed MW: 105 kDa
Swiss Prot:	P40763
GeneID:	6774
Gene Symbol:	STAT3
Concentration:	> 1 mg/ml
Buffer:	PBS, pH 7.3, 0.02% sodium azide, 50% glycerol.
Note:	This product is for research use only.