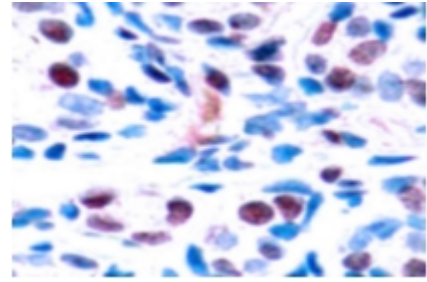


AP01692PU-N**Polyclonal Antibody to STAT3 pTyr705 - Aff - Purified**

Alternate names:	APRF, Acute-phase response factor, STAT-3, Signal transducer and activator of transcription 3
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
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- α 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 β appears to be activated by both while Stat3 α 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.
Uniprot ID:	P40763
NCBI:	NP_003141.2
GeneID:	6774
Host:	Rabbit
Format:	State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE). Purification: Affinity Chromatography using epitope-specific immunogen. Buffer System: Phosphate buffered saline (PBS), pH~7.2 Preservatives: 0.05% Sodium Azide
Applications:	Western blot: 1/500-1/1000. Immunoprecipitation: 1/50-1/200. Immunohistochemistry on Paraffin Sections: 1/50-1/200. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Molecular Weight:	~ 88 kDa
Specificity:	This antibody detects endogenous levels of STAT3 protein only when phosphorylated at Tyr705.
Species Reactivity:	Tested: Human. Expected from sequence similarity: Mouse and Rat.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: One year from despatch.

Pictures:

Immunohistochemistry (IHC) analyzes of STAT3 pTyr705 antibody (Cat.-No.: AP01692PU-N) in paraffin-embedded human breast carcinoma tissue.



Western blot (WB) analysis of STAT3 pTyr705 antibody (Cat.-No.: AP01692PU-N) in extracts from HeLa cells.

