

Stat3 (phospho Tyr705) Polyclonal Antibody

Cat No: HR1AP2517

For research use only

Overview

Product Name	Stat3 (phospho Tyr705) Polyclonal Antibody
Source	Rabbit
Applications	IF, WB, IHC-p, IP, ELISA
Species Reactivity	Human, Mouse, Rat
Recommended Dilutions	
Immunogen	
Species	Rabbit
Storage	-20°C/1 year
Isotype	
Clonality	
Concentration	1 mg/ml
Observed band	88kDa
GeneID? Human?	STAT3
Human Swiss-Prot No.	
Cellular localization	
Alternative Names	STAT3; APRF; Signal transducer and activator of transcription 3; Acute-phase response factor
Background	signal transducer and activator of transcription 3 (STAT3) Homo sapiens 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. Mutations in this gene are associated with infantile-onset multisystem autoimmune disease and hyper