

Phospho-Stat Antibody Sampler Kit

Cat# AK0238

Upon receipt, store at -20°C. Avoid freeze/thaw cycles.

PRODUCT DESCRIPTION

Jaks (Janus Kinases) and Stats (Signal Transducers and Activators of Transcription) are utilized by receptors for a wide variety of ligands including cytokines, hormones, growth factors and neurotransmitters. Jaks, activated via autophosphorylation following ligand-induced receptor aggregation, phosphorylate tyrosine residues on associated receptors, Stat molecules and other downstream signaling proteins. The phosphorylation of Stat proteins at conserved tyrosine residues activates SH2-mediated dimerization followed rapidly by nuclear translocation. Stat dimers bind to IRE (interferon response element) and GAS (gamma interferon-activated sequence) DNA elements, resulting in the transcriptional regulation of downstream genes. The remarkable range and specificity of responses regulated by the Stats is determined in part by the tissue-specific expression of different cytokine receptors, Jaks and Stats, and by the combinatorial coupling of various Stat members to different receptors. Serine phosphorylation in the carboxy-terminal transcriptional activation domain has been shown to regulate the function of Stat1, -2, -3, -4 and -5. Phosphorylation of Stat3 at Ser727 via MAPK or mTOR pathways is required for optimal transcriptional activation in response to growth factors and cytokines including IFN-gamma and CNTF. Jak/Stat pathways also play important roles in oncogenesis, tumor progression, angiogenesis, cell motility, immune responses and stem cell differentiation.

PRODUCT INCLUDES

Cat No.	Product name	Quantity	Applications	Reactivity	Host
A340285	Phospho-STAT1 (Tyr701) Polyclonal Antibody	20µL	WB, IHC, IP, ELISA	Human, Mouse, Rat, Monkey	Rabbit
A340363	Phospho-STAT1 (Ser727) Polyclonal Antibody	20µL	WB, IHC, ELISA	Human, Mouse, Rat	Rabbit
A340336	Phospho-STAT2 (Tyr690) Polyclonal Antibody	20µL	WB, IHC, ELISA	Human, Rat	Rabbit
A340286	Phospho-STAT3 (Tyr705) Polyclonal Antibody	20µL	WB, IHC, IP, ELISA	Human, Mouse, Rat	Rabbit
A340337	Phospho-STAT5 (Ser726/731) Polyclonal Antibody	20µL	WB, IHC, ELISA	Human, Mouse, Rat	Rabbit

A340287	Phospho-STAT6 (Thr645) Polyclonal Antibody	20μL	WB, IHC, IP, ELISA	Human, Mouse, Rat	Rabbit
A340288	Phospho-STAT6 (Tyr641) Polyclonal Antibody	20μL	WB, IHC, ELISA	Human, Mouse, Rat	Rabbit
A1013s	Goat Anti-Rabbit IgG (H+L) (peroxidase/HRP conjugated)	120μL	WB, ELISA	Rabbit	Goat

PRODUCT USE LIMITATION

These products are intended for research use only.