

## Phospho-Stat3-S727 Antibody Kit

<b>Catalog No.</b>	RK04089	<b>Category</b>	Antibody Kit
<b>Applications</b>	WB, IF	<b>Observed MW</b>	86kDa
<b>Cross-reactivity</b>	Human, Mouse, Rat, Monkey	<b>Calculated MW</b>	83kDa/87kDa/88kDa

### Immunogen Information

<b>Immunogen</b>	A synthetic phosphorylated peptide around S727 of human Stat3 (NP_644805.1). Recombinant fusion protein containing a sequence corresponding to amino acids 640-770 of human STAT3 (NP_644805.1).
<b>Gene ID</b>	6774
<b>Swiss prot</b>	P40763
<b>Synonyms</b>	ADMIO;ADMIO1;APRF;HIES;ADMIO;APRF;HIES

### Product information

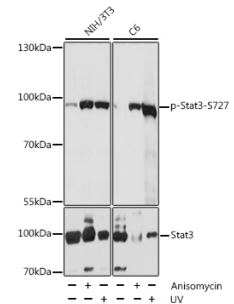
<b>Source</b>	Rabbit
<b>Isotype</b>	IgG
<b>Purification method</b>	Affinity purification
<b>Storage</b>	Store at -20°C. Avoid freeze/ thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

### Background

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-immunoglobulin E syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

### Recommended Dilutions

WB 1:500 -  
1:2000



Western blot - Phospho-Stat3-S727 pAb (AP0474)