

Phospho-Stat3-Y705 Antibody Kit

Catalog No.	RK04099	Category	Antibody Kit
Applications	WB, IHC, IF	Observed MW	105kDa
Cross-reactivity	Human, Mouse, Rat, Monkey	Calculated MW	83kDa/87kDa/88kDa

Immunogen Information

Immunogen	A synthetic phosphorylated peptide around Y705 of human Stat3 (NP_644805.1). Recombinant fusion protein containing a sequence corresponding to amino acids 640-770 of human STAT3 (NP_644805.1).
Gene ID	6774
Swiss prot	P40763
Synonyms	ADMIO;ADMIO1;APRF;HIES;ADMIO;APRF;HIES

Product information

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

Background

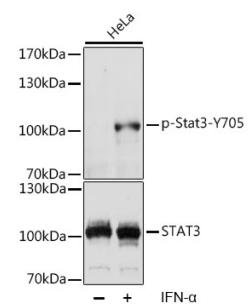
The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. 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

IHC 1:50 -
1:200

IF 1:50 -
1:200



Western blot - Phospho-Stat3-Y705 pAb (AP0070)