

Stat3 (Acetyl Lys87) Polyclonal Antibody

Catalog # AP63267

Product Information

Application	WB, E, IHC-P
Primary Accession	P40763
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

Additional Information

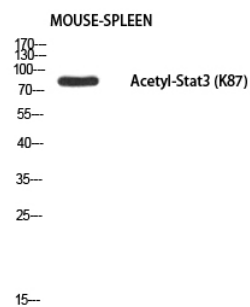
Other Names	STAT3; APRF; Signal transducer and activator of transcription 3; Acute-phase response factor
Dilution	WB--Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications. E--N/A IHC-P--N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

Protein Information

Background

Signal transducer and transcription activator that mediates cellular responses to interleukins, KITLG/SCF, LEP and other growth factors (PubMed:[10688651](#), PubMed:[12359225](#), PubMed:[12873986](#), PubMed:[15194700](#), PubMed:[17344214](#), PubMed:[18242580](#), PubMed:[23084476](#)). Once activated, recruits coactivators, such as NCOA1 or MED1, to the promoter region of the target gene (PubMed:[17344214](#)). May mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4 (PubMed:[12873986](#)). Binds to the interleukin-6 (IL-6)-responsive elements identified in the promoters of various acute-phase protein genes (PubMed:[12359225](#)). Activated by IL31 through IL31RA (PubMed:[15194700](#)). Acts as a regulator of inflammatory response by regulating differentiation of naive CD4(+) T-cells into T-helper Th17 or regulatory T-cells (Treg): deacetylation and oxidation of lysine residues by LOXL3, leads to disrupt STAT3 dimerization and inhibit its transcription activity (PubMed:[28065600](#)). Involved in cell cycle regulation by inducing the expression of key genes for the progression from G1 to S phase, such as CCND1 (PubMed:[17344214](#)). Mediates the effects of LEP on melanocortin production, body energy homeostasis and lactation (By similarity). May play an apoptotic role by transactivating BIRC5 expression under LEP activation (PubMed:[18242580](#)). Cytoplasmic STAT3 represses macroautophagy by inhibiting EIF2AK2/PKR activity (PubMed:[23084476](#)). Plays a crucial role in basal beta cell functions, such as regulation of insulin secretion (By similarity).

Images



Western blot analysis of MOUSE-SPLEEN using Acetyl-Stat3 (K87) antibody. Antibody was diluted at 1:500. Secondary antibody was diluted at 1:20000

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.