

	<h1>STAT3 Rabbit pAb</h1>	E 2 5 1 1 0 4 8
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<b>Swiss-Prot No.:</b>	P40763
<b>Altername:</b>	STAT3
<b>Storage/Stability:</b>	Store at -20°C. Avoid freeze / thaw cycles.
<b>Immunogen:</b>	Recombinant fusion protein containing a sequence corresponding to amino acids 40-240 of human STAT3 (NP_644805.1).
<b>Purification:</b>	Affinity purified
<b>Reactivity:</b>	Human,Mouse
<b>Other Names:</b>	APRF; HIES; ADMIO; ADMIO1
<b>Cellular localization:</b>	Cytoplasm, Nucleus
	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

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<b>Relevance:</b>	(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 . 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 .
<b>Source:</b>	Rabbit
<b>Antibody type:</b>	Polyclonal antibody
<b>Isotype:</b>	Rabbit IgG
<b>Molecular Weight:</b>	85kDa
<b>Preservative:</b>	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
<b>Recommended Dilutions:</b>	WB 1:200 - 1:500; IHC 1:50 - 1:200(Optimal dilutions should be determined by the end user)