CREATIVE BIOMART®
Immune Checkpoints

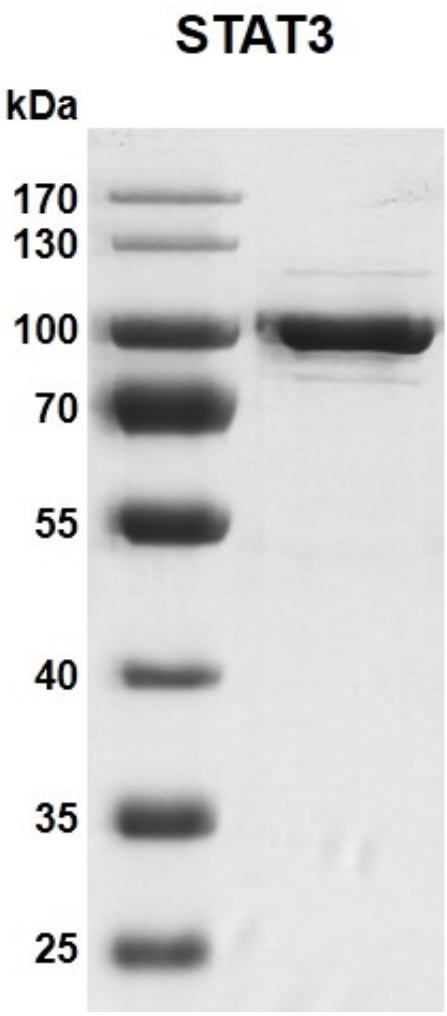
Recombinant Human STAT3 Protein Full Length, FLAG-tagged

Product Information

Cat	*IMP-6467*
Official Symbol	*STAT3*
Product Overview	*Recombinant human STAT3 protein was expressed in a baculovirus expression system as the full length protein (accession number NP_644805.1) with an N-terminal FLAG tag. The molecular weight of the protein is 89.2 kDa.*
Description	*STAT3 (Signal Transducer And Activator Of Transcription 3), also known as APRF (Acute-Phase Response Factor) or ADMIO, HIES, is a signal transducer and transcription activator that mediates cellular responses to interleukins, KITLG/SCF, LEP and other growth factors. Once activated, STAT3 can recruit coactivators, such as NCOA1 or MED1, to the promoter region of the target gene. Deacetylation and oxidation of lysine residues by LOXL3, leads to disrupt STAT3 dimerization and inhibit its transcription activity. STAT3 can bind to the interleukin-6 (IL-6)-responsive elements identified in the promoters of various acute-phase protein genes. It also acts as a regulator of inflammatory response by regulating differentiation of naive CD4(+) T-cells into T-helper Th17 or regulatory T-cells. It is involved in cell cycle regulation by inducing the expression of key genes for the progression from G1 to S phase, such as CCND1. Cytoplasmic STAT3 represses macroautophagy by inhibiting EIF2AK2/PKR activity.*
Expression System	*Insect cells*
Species	*Human*
Tag	*FLAG*
Form	*Recombinant STAT3 protein is supplied in 25 mM HEPES-NaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100 and 0.5 mM TCEP.*
Molecular Mass	*89.2 kDa*
Purity	*>90%*
Applications	*Where possible, Active Motif has developed functional or activity assays for recombinant proteins. Additional characterization such as enzyme kinetic activity assays, inhibitor screening or other biological activity assays may not have been performed for every product.*
Storage	*Recombinant proteins in solution are temperature sensitive and must be stored at -80 centigrade to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.*

45-1 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-559-9269 1-516-512-3133 E-mail: info@creative-biomart.com

SDS-PAGE



Recombinant STAT3 protein gel 10% SDS-PAGE Coomassie staining MW: 89.2 kDa Purity: >90%

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