

# Recombinant Human STAT3

Catalog No: #GP10068



Package Size: #GP10068-1 100ug

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## Description

Product Name	Recombinant Human STAT3
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 421-768 amino acids of human STAT3
Target Name	signal transducer and activator of transcription 3
Other Names	APRF; HIES; ADMIO; ADMIO1
Accession No.	Swissprot:P40763Gene Accession:BC014482
Uniprot	P40763
GeneID	6774;
Storage	-20~-80°C, pH 7.6 PBS

## Background

The Stat3 transcription factor is an important signaling molecule for many cytokines and growth factor receptors and is required for murine fetal development. Research studies have shown that Stat3 is constitutively activated in a number of human tumors and possesses oncogenic potential and anti-apoptotic activities. Stat3 is activated by phosphorylation at Tyr705, which induces dimerization, nuclear translocation, and DNA binding. Transcriptional activation seems to be regulated by phosphorylation at Ser727 through the MAPK or mTOR pathways. Stat3 isoform expression appears to reflect biological function as the relative expression levels of Stat3 $\alpha$  (86 kDa) and Stat3 (79 kDa) depend on cell type, ligand exposure, or cell maturation stage. It is notable that Stat3 lacks the serine phosphorylation site within the carboxy-terminal transcriptional activation domain.

## References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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