



Human STAT3 blocking peptide (CDBP2831)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-STAT3 (isoform 1 and 2) antibody
Antigen Description	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. Three alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008]
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

Gene Name	STAT3 signal transducer and activator of transcription 3 (acute-phase response factor) [Homo sapiens]
------------------	---

Official Symbol	STAT3
Synonyms	STAT3; signal transducer and activator of transcription 3 (acute-phase response factor); signal transducer and activator of transcription 3; APRF; DNA-binding protein APRF; acute-phase response factor; HIES; FLJ20882; MGC16063;
Entrez Gene ID	6774
mRNA Refseq	NM_003150
Protein Refseq	NP_003141
UniProt ID	P40763
Chromosome Location	17q21
Pathway	Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Adipogenesis, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem;
Function	CCR5 chemokine receptor binding; DNA binding; calcium ion binding; glucocorticoid receptor binding; ligand-activated sequence-specific DNA binding RNA polymerase II transcription factor activity; non-membrane spanning protein tyrosine kinase activity; pro