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Datasheet for ABIN7319036
STAT5B Protein (His tag)

Overview

Quantity:	50 µg
Target:	STAT5B
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This STAT5B protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human STAT5B Protein (His Tag)
Sequence:	Met 1-Thr321
Characteristics:	Recombinant Human Signal Transducer and Activator of Transcription 5B is produced by our E.coli expression system and the target gene encoding Met1-Thr321 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	STAT5B
Alternative Name:	STAT5B (STAT5B Products)
Background:	Background: Signal Transducer and Activator of Transcription 5b (STAT5B) is a member of the STAT family of transcription factors. They are responsible for an array of cellular activities

Target Details

including regulating growth, survival, differentiation, motility, and the immune response. STAT5B mediates the signal transduction triggered by various cell ligands, such as IL2, IL4, CSF1, and different growth hormones. It has been shown to be involved in diverse biological processes, such as TCR signaling, apoptosis, adult mammary gland development, and sexual dimorphism of liver gene expression. Signal transduction and activator of transcription 5 (STAT5) is a member of the Jak/STAT signal transduction pathway and is activated by a variety of cytokines (IL22, IL6). STAT5 has two isoforms (A and B) that share 93 % amino acid identity and bind the DNA consensus site TTCN3GAA. STAT5 mediates cytokine signaling by acting as a signal transducer in the cytoplasm and, upon phosphorylation, translocates to the nucleus and activates transcription of specific genes. STAT5 is involved in a wide array of biological processes ranging from regulating apoptosis to adult mammary gland proliferation, differentiation and survival.

Synonym: Signal Transducer and Activator of Transcription 5B, STAT5B

Molecular Weight: 38.4 kDa

UniProt: [P51692](#)

Pathways: [JAK-STAT Signaling](#), [RTK Signaling](#), [Response to Growth Hormone Stimulus](#), [C21-Steroid Hormone Metabolic Process](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [CXCR4-mediated Signaling Events](#), [Activated T Cell Proliferation](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Frozen, Liquid

Buffer: Supplied as a 0.2 µm filtered solution of PBS, 50 % Glycerol, 1 mM DTT, pH 7.4.

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.