STAT3 protein

CatalogNo: YD0102

Key Features

Reactivity
- Human

Applications
- WB,SDS-PAGE

Recommended Dilution Ratios

Storage

Storage*	-20°C/6 month,-80°C for long storage
Formulation	Liquid in PBS

Basic Information

Purity	SDS-PAGE >90%

Immunogen Information

Squence	Amino acid: 272-428, with his-MBP tag.

Target Information

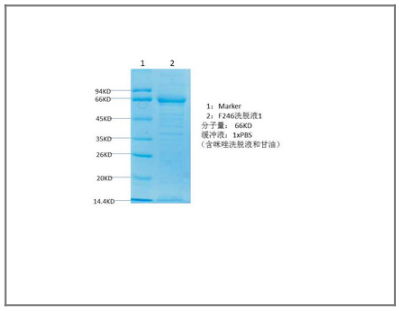
Gene name STAT3

Protein Name STAT3 protein

Organism	Gene ID	UniProt ID
Human	6774;	P40763;
Mouse		P42227;

Cellular Localization	Cytoplasm . Nucleus . Shuttles between the nucleus and the cytoplasm. Translocated into the nucleus upon tyrosine phosphorylation and dimerization, in response to signaling by activated FGFR1, FGFR2, FGFR3 or FGFR4. Constitutive nuclear presence is independent of tyrosine phosphorylation. Predominantly present in the cytoplasm without stimuli. Upon leukemia inhibitory factor (LIF) stimulation, accumulates in the nucleus. The complex composed of BART and ARL2 plays an important role in the nuclear translocation and retention of STAT3. Identified in a complex with LYN and PAG1.
Tissue specificity	Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Expressed in naive CD4(+) T cells as well as T-helper Th17, Th1 and Th2 cells (PubMed:31899195).
Function	negative regulation of transcription from RNA polymerase II promoter, eye development, temperature homeostasis,eye photoreceptor cell differentiation, acute inflammatory response, transcription, regulation of transcription, DNA-dependent, regulation of transcription from RNA polymerase II promoter, cell motion, defense response, acute-phase response, inflammatory response, cell surface receptor linked signal transduction, enzyme linked receptor protein signaling pathway, transmembrane receptor protein tyrosine kinase signaling pathway, intracellular signaling cascade,protein kinase cascade, JAK-STAT cascade, sensory organ development, behavior, feeding behavior, response to wounding, response to endogenous stimulus, response to hormone stimulus, negative regulation of biosynthetic process, positive regulation of biosynthetic process, response to organic substance, positive regulation of macromolecule biosynthetic process, negative regulation of macromolecule biosynthetic process, positive regulation of macromolecule metabolic process, negative regulation of macromolecule metabolic process, positive regulation of gene expression, negative regulation of gene expression, response to organic cyclic substance, negative regulation of transcription, cytokine-mediated signaling pathway, sexual reproduction, neuron differentiation, negative regulation of cellular biosynthetic process, positive regulation of cellular biosynthetic process, response to estradiol stimulus,cellular response to hormone stimulus, carbohydrate homeostasis, response to cytokine stimulus, regulation of growth, regulation of multicellular organism growth, response to drug, homeostatic process, glucose homeostasis,eating behavior, response to peptide hormone stimulus, response to estrogen stimulus, regulation of transcription,response to ethanol, negative regulation of transcription, DNA-dependent, positive regulation of transcription, DNA-dependent, negative regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolic process, positive regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolic process, positive regulation of transcription, positive regulation of transcription from RNA polymerase II promoter, photoreceptor cell differentiation,response to steroid hormone stimulus, eye morphogenesis, multicellular organismal homeostasis, chemical homeostasis, negative regulation of nitrogen compound metabolic process, positive regulation of nitrogen compound metabolic process, regulation of RNA metabolic process, negative regulation of RNA metabolic process, positive regulation of RNA metabolic process, growth hormone receptor signaling pathway, JAK-STAT cascade involved in growth hormone signaling pathway, response to growth hormone stimulus, interleukin-6-mediated signaling pathway,

Validation Data



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STAT3 protein