Recombinant Human STAT3 protein ,N- Gst Tag

Catalog#: AD2252 | Size: 30μL/50μL/100μL

Main Information

Reactivity
Human

Detailed Information

Recommended Dilution Ratio	Reconstitute in sterile water for a stock solution
Formulation	Supplied as solution form in TBS,pH8.0./ Lyophilized from TBS,pH8.0.
Source	E.coli
Purity	>90% as determined by SDS-PAGE
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 °C for one week . Store at -20 to -80 °C for twelve months from the date of receipt.

Antigen&Target Information

Sequence	A DNA sequence encoding the human STAT3(Met1~Met770) was fused with the N-terminal Gst Tag
Other Name	APRF

Database Link

Organism	Gene ID	SwissProt
Human	6774	P40763

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 Expression

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).

Signaling Pathway

Cellular Processes >> Cell growth and death >> Necroptosis
Cellular Processes >> Cellular community - eukaryotes >> Signaling pathways regulating pluripotency of stem cells
Organismal Systems >> Immune system >> Th17 cell differentiation
Organismal Systems >> Immune system >> Chemokine signaling pathway
Organismal Systems >> Endocrine system >> Adipocytokine signaling pathway
Organismal Systems >> Endocrine system >> Prolactin signaling pathway
Organismal Systems >> Endocrine system >> Growth hormone synthesis, secretion and action
Human Diseases >> Cancer: overview >> Pathways in cancer
Human Diseases >> Cancer: overview >> MicroRNAs in cancer
Human Diseases >> Cancer: overview >> PD-L1 expression and PD-1 checkpoint pathway in cancer
Human Diseases >> Cancer: specific types >> Pancreatic cancer
Human Diseases >> Cancer: specific types >> Acute myeloid leukemia
Human Diseases >> Cancer: specific types >> Non-small cell lung cancer
Human Diseases >> Immune disease >> Inflammatory bowel disease
Environmental Information Processing >> Signal transduction >> JAK-STAT signaling pathway
Environmental Information Processing >> Signal transduction >> HIF-1 signaling pathway
Environmental Information Processing >> Signal transduction >> FoxO signaling pathway

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