

Product datasheet for PH310065

STAT6 (NM_003153) Human Mass Spec Standard

Product data:

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|---------------------------------------|---|
| Product Type: | Mass Spec Standards |
| Description: | STAT6 MS Standard C13 and N15-labeled recombinant protein (NP_003144) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC210065 |
| Predicted MW: | 94.2 kDa |
| Protein Sequence: | >Peptide sequence encoded by RC210065 Blue=ORF Red=Cloning site Green=Tag(s) |

MSLWGLVSKMPPEKVQRLYVDFPQHLRHLLGDWLESQPWEFLVGSDAFCCNLTSALLSDTVQHLQASVG
EQGEGSTILQHISTLESYQRDPLKLVATFRQILQGEKKAVMEQFRHLPMPFHWKQEELKFKTGLRRLQ
HRVGEIHLLREALQKGAEGQVSLHSLIETPANGTGPSEALAMLLQETTGELEAAKALVLKRIQIWKRQ
QQLAGNGAPFEESLAPLQERCESLVDIYSQLQQEVGAAGGELEPKTRASLTGRLDEVLRTLVTSCLFVE
KQPPQVLKTQTKFQAGVRFLGLRFLGAPAKPPLVRADMVTEKQARELSVPQGPAGAEESTGEIINNTV
PLENSIPGNCCSALFKNLLKIKRCERKGTESVTEEKCAVLFSASFTLGPGLPIQLQALSLPLVVIV
HGNQDNNAKATILWDAFSEMDRVPFVAERVPWEKMCETLNLKMAEVGTNRGLPEHFLFLAQKIFN
DNSLSMEAFQHRVSWSQFNKEILLGRGFTFWQWFDGVLDTKRCLRSYWSDRLLIIGFISKQYVTSLLL
NEPDGTFLLRFSDSEIGGITIAHVIRGQDGSPQIENIQPFSKDLRSIRSLGDRIRDLAQLKNLYPKPK
DEAFRSHYKPEQMGKDRGRYVPAIKMTVERDQPLPTELMQPTMVPSYDLGMAPDSSMSQLGPMVP
QVYPPHSHSIPPYQGLSPEESVNVLSAFQEPHLQMPPLGQMSLFPDQPHQGLLPCQPQEHAVSSPDP
LLCSDVTMVEDSCLSQPVTAFPPQGTWIGEDIFFPPLLPTEQDLTKLLLEGQGESGGGSLGAQPLLQPSH
YQSGISMSHMDLRANLSW
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Recombinant protein using RC210065 also available, [TP310065](#)

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| Tag: | C-Myc/DDK |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Labeling Method: | Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3 |
| Storage: | Store at -80°C. Avoid repeated freeze-thaw cycles. |
| Stability: | Stable for 3 months from receipt of products under proper storage and handling conditions. |



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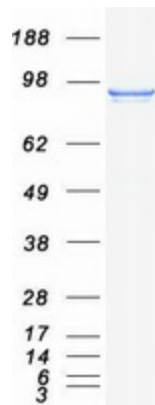
RefSeq: [NP_003144](#)
RefSeq Size: 4031
RefSeq ORF: 2541
Synonyms: D12S1644; IL-4-STAT; STAT6B; STAT6C
Locus ID: 6778
UniProt ID: [P42226](#)
Cytogenetics: 12q13.3

Summary: The protein encoded by this gene is a member of the STAT family of transcription factors. 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 plays a central role in exerting IL4 mediated biological responses. It is found to induce the expression of BCL2L1/BCL-X(L), which is responsible for the anti-apoptotic activity of IL4. Knockout studies in mice suggested the roles of this gene in differentiation of T helper 2 (Th2) cells, expression of cell surface markers, and class switch of immunoglobulins. Alternative splicing results in multiple transcript variants.[provided by RefSeq, May 2010]

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors

Protein Pathways: Jak-STAT signaling pathway

Product images:



Coomassie blue staining of purified STAT6 protein (Cat# [TP310065]). The protein was produced from HEK293T cells transfected with STAT6 cDNA clone (Cat# [RC210065]) using MegaTran 2.0 (Cat# [TT210002]).