

## Product datasheet for PH308592

### STAT2 (NM\_005419) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	STAT2 MS Standard C13 and N15-labeled recombinant protein (NP_005410)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208592
Predicted MW:	97.9 kDa
Protein Sequence:	>RC208592 protein sequence Red=Cloning site Green=Tags(s)

MAQWEMLQNLDSPFQDQLHQLYSHSLLPVDIRQYLAVWIEDQNWQEAALGSDDSKATMLFFHFLDQLN  
CGRCSQDPESLLQLQHNLKFCRDIQPFSDPTQLAEMIFNLLLEEKRIILIQAQRAQLEQGEPVLETPVES  
QQHEIESRILDLRAMMEKLVKSISQLKDQDQVFCFRYKIQAKGKTPSLDPHQTKQKILQETLNELDKRR  
KEVLDASKALLGRLTTLIELLLPKLEEWKAQQKACIRAPIDHGLEQLETWFTAGAKLLFHLRQLKELK  
GLSCLVSYQDDPLTKGVDLRNAQVTELLQRLHRAFVVETQPCMPQTPHRPLILKTGSKFTVRTRLLVRL  
QEGNESL TVEVSDRNPPQLQGFRKFNILTSNQKTLTPEKGQSQGLIWFDFGYLTLVEQRSGGSGKGSNKG  
PLGVTEELHIISFTVKYTYQGLKQELKTDLPVVIISNMNQLSIAWASVLWFNLLSPNLQSQFFSNPPK  
APWSLLGPALSWQFSSYVGRGLNSDQLSMLRNKLFQGNCRTEPLLWADFTKRESPPGKLPFWTWLDKI  
LELVHDHLKDLWNDGRIMGFVSRSQERRLLKKTMSGTFLLRFSESEGGITCSWVEHQDDDKVLIYSVQP  
YTKEVLQSLPLTEIRHYQLLTEENIPENPLRFLYPRIPRDEAFGCYYQEKVNLQERRKYLKHLRIYVSN  
RQVDELQQPLELKEPELESLELELGLVPEPELSLDLEPLLKAGLDLGPESVLESTLEPVIEPTLCMV  
SQTVPPEPDQGPVSQPVPEPDLPCDLRHLNTEPMEIFRNCVKIEEIMPNGDPLLAGQNTVDEVVYSRPSHF  
YTDGPLMPSDF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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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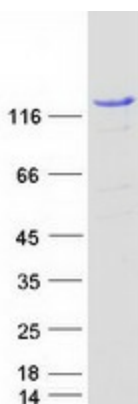
RefSeq:	<a href="#">NP_005410</a>
RefSeq Size:	4576
RefSeq ORF:	2553
Synonyms:	IMD44; ISGF-3; P113; PTORCH3; STAT113
Locus ID:	6773
UniProt ID:	<a href="#">P52630</a> , <a href="#">R9QE65</a>
Cytogenetics:	12q13.3

**Summary:** 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. In response to interferon (IFN), this protein forms a complex with STAT1 and IFN regulatory factor family protein p48 (ISGF3G), in which this protein acts as a transactivator, but lacks the ability to bind DNA directly. The protein mediates innate antiviral activity. Mutations in this gene result in Immunodeficiency 44. [provided by RefSeq, Aug 2020]

**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Chemokine signaling pathway, Jak-STAT signaling pathway

### Product images:



Coomassie blue staining of purified STAT2 protein (Cat# [TP308592]). The protein was produced from HEK293T cells transfected with STAT2 cDNA clone (Cat# [RC208592]) using MegaTran 2.0 (Cat# [TT210002]).