

Product datasheet for PH313878

JAK1 (NM_002227) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	JAK1 MS Standard C13 and N15-labeled recombinant protein (NP_002218)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC213878
Predicted MW:	133.3 kDa
Protein Sequence:	>RC213878 representing NM_002227 Red=Cloning site Green=Tags(s)

MQYLNIKEDCNAMAFCAKMRSSKKEVNLAEPEPGVEVIFYLSDREPLRLGSGEYTAELCIRAAQACRI
SPLCHNLFALYDENTKLWYAPNRTITVDDKMSLRLLHYRMRFYFTNWHGTNDNEQSVWRHSPKQKNGYEK
KKIPDATPLLDASSLEYLFAQQQYDLVKCLAPIRDPKTEQDGHDIENECLGMAVLAISHYAMKMKQLPE
LPKDISYKRYIPETLNKSIRQRNLLTRMRINNVFKDFLKEFNKTI CDSSVSTHDLKVKYLATLET LTKH
YGAEIFETSMLLISSENMNWFHNSDGGNVLYYEVMVTGNLGIQWRHKPNVVSVEKEKNLKRKLENKH
KKDEEKNKIREEWNFSYFPEITHIVIKESVVSINKQDNKMKELKLSHEEALSFVSLVDGYFRLTADAH
HYLCTDVAPPLIVHNIQNGCHGPICTEYAINKLRQEGSEEGMYVLRWSCDFDNILMTVTCFEKSEQVQG
AQKQFKNFQIEVQKGRYSLHGSDFPSLGDLSHLKKQILRTDNISFMLKRCCQPKPREISNLLVATKK
AQEWQPVYPMSQLSFDRIKLDLQGEHLGRGTRTHIYSGTMDYKDDDEGTSEEKIKVILKVLDP SHRD
ISLAFFEAASMMRQVSHKHIVYLYGVCVRDVENIMVEEFVEGGPLDLFMHRKSDVLTTPWKFVAKQLAS
ALSYLEDKDLVHGNVCTKNLLAREGIDSECGPFIKLSDPGIPITVLSRQECIERIPWIAPECVEDSKNL
SVAADKWSFGTTLWEICYNGEIPDKDKTLIEKERFYESRCPVTPSCKELADLMTRCMNYDPNQRPFRA
IMRDINKLEEQNPDI VSEKKPATEVDPHF EKRF LKRIRD LGEGHFGKVELCRYDPEGDNTGEQVAVKSL
KPESGGNHIADLKEIEILRNL YHENIVKYKICTEDGGNGIKLIMEFLPSGSLKEYLPKNKNKINLKQQ
LKYAVQICKGMDYLGSRQYVHRDLAARNVLVESEHQVKIGDFGLTKAIE TDKEYYTVKDDRSDPVFWYAP
ECLMQSKFYIASDVWFSFGVTLHELLTYCSDSSPMALFLKMI GP THGQMTVTRLVNTLKEGKRLPCPPNC
PDEVYQLMRKCWEFQPSNRTSFQNLIEGFEALLK

TRTRPLEQKLISEEDLAANDILDYKDDDDK

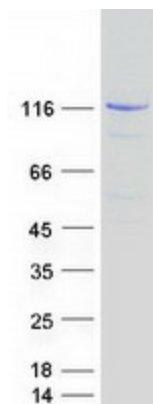
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3



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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.
RefSeq:	NP_002218
RefSeq Size:	5053
RefSeq ORF:	3462
Synonyms:	AIIDE; JAK1A; JAK1B; JTK3
Locus ID:	3716
UniProt ID:	P23458
Cytogenetics:	1p31.3
Summary:	This gene encodes a membrane protein that is a member of a class of protein-tyrosine kinases (PTK) characterized by the presence of a second phosphotransferase-related domain immediately N-terminal to the PTK domain. The encoded kinase phosphorylates STAT proteins (signal transducers and activators of transcription) and plays a key role in interferon-alpha/beta, interferon-gamma, and cytokine signal transduction. This gene plays a crucial role in effecting the expression of genes that mediate inflammation, epithelial remodeling, and metastatic cancer progression. This gene is a key component of the interleukin-6 (IL-6)/JAK1/STAT3 immune and inflammation response and is a therapeutic target for alleviating cytokine storms. The kinase activity of this gene is directly inhibited by the suppressor of cytokine signalling 1 (SOCS1) protein. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2020]
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Jak-STAT signaling pathway, Pancreatic cancer, Pathways in cancer

Product images:



Coomassie blue staining of purified JAK1 protein (Cat# [TP313878]). The protein was produced from HEK293T cells transfected with JAK1 cDNA clone (Cat# [RC213878]) using MegaTran 2.0 (Cat# [TT210002]).