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# JAK3 Protein (AA 818-110) (His tag)





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Quantity:	100 μg
Target:	JAK3
Protein Characteristics:	AA 818-110
Origin:	Mouse
Source:	Yeast
Protein Type:	Recombinant
Purification tag / Conjugate:	This JAK3 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details	
Sequence:	LKYISLLGKG NFGSVELCRY DPLGDNTGPL VAVKQLQHSG PDQQRDFQRE IQILKALHSD FIVKYRGVSY GPGRQSLRLV MEYLPSGCLR DFLQRHRARL HTDRLLLFAW QICKGMEYLG
	ARRCVHRDLA ARNILVESEA HVKIADFGLA KLLPLGKDYY VVREPGQSPI FWYAPESLSD NIFSRQSDVW SFGVVLYELF TYCDKSCSPS AEFLRMMGPE REGPPLCRLL ELLAEGRRLP
	PPPTCPTEVQ ELMQLCWAPS PHDRPAFGTL SPQLDALWRG RPG
Purification:	SDS-PAGE
Purity:	> 90 %

### **Target Details**

Target:	JAK3	
Alternative Name:	JAK3 (JAK3 Products)	

#### **Target Details**

#### Background:

Non-receptor tyrosine kinase involved in various processes such as cell growth, development, or differentiation. Mediates essential signaling events in both innate and adaptive immunity and plays a crucial role in hatopoiesis during T-cells development. In the cytoplasm, plays a pivotal role in signal transduction via its association with type I receptors sharing the common subunit gamma such as IL2R, IL4R, IL7R, IL9R, IL15R and IL21R. Following ligand binding to cell surface receptors, phosphorylates specific tyrosine residues on the cytoplasmic tails of the receptor, creating docking sites for STATs proteins. Subsequently, phosphorylates the STATs proteins once they are recruited to the receptor. Phosphorylated STATs then form homodimer or heterodimers and translocate to the nucleus to activate gene transcription. For example, upon IL2R activation by IL2, JAK1 and JAK3 Molecules bind to IL2R beta (IL2RB) and gamma chain (IL2RG) subunits inducing the tyrosine phosphorylation of both receptor subunits on their cytoplasmic domain. Then, STAT5A AND STAT5B are recruited, phosphorylated and activated by JAK1 and JAK3. Once activated, dimerized STAT5 translocates to the nucleus and promotes the transcription of specific target genes in a cytokine-specific fashion.

Molecular Weight:	34.2 kDa
UniProt:	Q62137
Pathways:	JAK-STAT Signaling, RTK Signaling, Response to Growth Hormone Stimulus, Regulation of
	Laukocyta Madiatad Immunity, Production of Molacular Madiator of Immuna Passansea, Protain

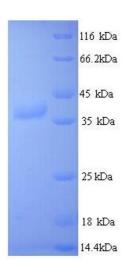
Leukocyte Mediated Immunity, Production of Molecular Mediator of Immune Response, Protein targeting to Nucleus, Activated T Cell Proliferation, Unfolded Protein Response

## Application Details

Application Notes:

Application Notes:	Optimal working dilution should be determined by the investigator.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	0.1-2 mg/mL	
Buffer:	20 mM Tris-HCl based buffer, pH 8.0	
Storage:	-80 °C,4 °C,-20 °C	
Storage Comment:	Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.	

Ontimal working dilution should be determined by the investigator



#### **SDS-PAGE**

Image 1.