

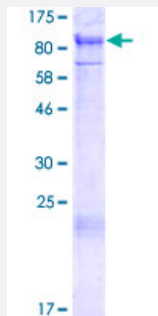
Full-Length

PIAS1 (Human) Recombinant Protein (P01)

Catalog # H00008554-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PIAS1 full-length ORF (NP_057250.1, 1 a.a. - 651 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MADSAELKQMVMSLRVSELQVLLGYAGRNKHGRKHELLTKALHLLKAGCSPAVQMKIKEYRRR
FPQKIMTPADLSIPNVHSSPMPATLSPSTIPQLTYDGHPASSPLLPVSLGPKHELELPHLTSALHP
VHPDIKLQKLPHYDLLDELIKPTSLASDNSQRFRETCFAFALTPQQVQQISSMDISGTKCDFTVQV
QLRFCLSETSCPQEDHFPPNLCVKVNTKPCSLPGYLPPTKNGVEPKRPSRPINITSLVRLSTTVPN
TIVSWTAEIGRNYSMAYVLVKQLSSTVLLQRLRAKGRNPDHSRALIKEKLTADPDSEIATTSRVS
LLCPLGKMRLTIPCRALTCSHLQCFDATLYIQMNEKKPTWVCPVCDKKAPYEHLIDGLFMEILKYC
TDCDEIQFKEDGTWAPMRSKKEVQEVSASYNGVDGCLSSLEHQVASHHQSSNKNKKVEIDL
IDSSSDEEEEEPSAKRTCPSLSPTSPLNNKGILSLPHQASPVSRTPSLPAVDTSYINTSLIQDYRHP
FHMTMPYDLQGLDFFPFLSGDNQHYNTSLAAAAAAVSDDDQDLLHSSRFFPYTSSQMFLDQLS
AGGSTSLPTTNGSSSGSNSSLVSSNSLRESHSHTVTNRSSTDTASIFGIIPDIISLD

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

98.2

Interspecies Antigen Sequence

Mouse (98)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PIAS1

Entrez GeneID	8554
GeneBank Accession#	NM_016166.1
Protein Accession#	NP_057250.1
Gene Name	PIAS1
Gene Alias	DDXBP1, GBP, GU/RH-II, MGC141878, MGC141879, ZMIZ3
Gene Description	protein inhibitor of activated STAT, 1
Omim ID	603566
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the mammalian PIAS [protein inhibitor of activated STAT-1 (signal transducer and activator of transcription-1)] family. This member contains a putative zinc-binding motif and a highly acidic region. It inhibits STAT1-mediated gene activation and the DNA binding activity, binds to Gu protein/RNA helicase I/DEAD box polypeptide 21, and interacts with androgen receptor (AR). It functions in testis as a nuclear receptor transcriptional coregulator and may have a role in AR initiation and maintenance of spermatogenesis. [provided by RefSeq]
Other Designations	AR interacting protein DEAD/H (Asp-Glu-Ala-Asp/His) box binding protein 1 protein inhibitor of activated STAT-1 zinc finger, MIZ-type containing 3

Publication Reference

- [CREB SUMOylation by the E3 Ligase PIAS1 Enhances Spatial Memory.](#)

Chen YC, Hsu WL, Ma YL, Tai DJ, Lee EH.

The Journal of Neuroscience 2014 Jul; 34(29):9574.

Application: Added, Recombinant protein

Pathway

- [Jak-STAT signaling pathway](#)
- [Pathways in cancer](#)
- [Small cell lung cancer](#)
- [Ubiquitin mediated proteolysis](#)

Disease

- [Multiple Sclerosis](#)