

Product datasheet for PH306748

E3 SUMO protein ligase PIAS4 (PIAS4) (NM_015897) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PIAS4 MS Standard C13 and N15-labeled recombinant protein (NP_056981)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206748
Predicted MW:	56.5 kDa
Protein Sequence:	>RC206748 protein sequence Red=Cloning site Green=Tags(s)

MAELVEAKNMVMSFRVSDLQMLLGFVGRSKSGLKHELVTRALQLVQFDCSPELFKKIKELYETRYAKKN
SEPAPQPHRPLDPLTMHSTYDRAGAVPRTPLAGPNIDYPVLYGKYLNGLGRLPAKTLKPEVRLVKLPFFN
MLDELLKPTELVPQNEKLQESPCIFALTPRQVELIRNSRELQPGVKAQVVLRIICYSDTSCPDQYPP
NIAVKVNHSYCSVPGYYPSNKPGEVKRPCRPIINLTHLMYSSATNRITVTWGNYGKSYSVALYLVRQLT
SSELLQRLKTIGVKHPELCKALVKEKLRDPDSEIATTGVRVSLICPLVKMRLSVCRAETCAHLQCFDA
VFYLMNEKKPTWMPVCDKPAPYDQLIIDGLLSKILSECEADEIEYLVDGSWCPIRAERKERSCPQGA
ILVLPDANGLLPAPSVNGSGALGSTGGGPGVSMENKPGADVVDLTLDSSSSSEDEEEEEEEEEDEDED
EEGPRPKRRRCPFQKGLVPAC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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.
RefSeq:	NP_056981
RefSeq Size:	1835
RefSeq ORF:	1530



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Synonyms: PIAS-gamma; Piasg; PIASY; ZMIZ6

Locus ID: 51588

UniProt ID: [Q8N2W9](#), [B3KMR4](#)

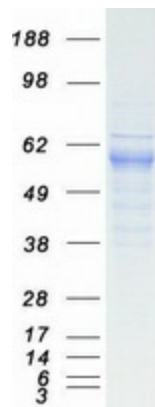
Cytogenetics: 19p13.3

Summary: Functions as an E3-type small ubiquitin-like modifier (SUMO) ligase, stabilizing the interaction between UBE2I and the substrate, and as a SUMO-tethering factor. Plays a crucial role as a transcriptional coregulation in various cellular pathways, including the STAT pathway, the p53/TP53 pathway, the Wnt pathway and the steroid hormone signaling pathway. Involved in gene silencing. Mediates sumoylation of CEBPA, PARK7, HERC2, MYB, TCF4 and RNF168. In Wnt signaling, represses LEF1 and enhances TCF4 transcriptional activities through promoting their sumoylations. Enhances the sumoylation of MTA1 and may participate in its paralog-selective sumoylation.[UniProtKB/Swiss-Prot Function]

Protein Families: Transcription Factors

Protein Pathways: Jak-STAT signaling pathway, Pathways in cancer, Small cell lung cancer, Ubiquitin mediated proteolysis

Product images:



Coomassie blue staining of purified PIAS4 protein (Cat# [TP306748]). The protein was produced from HEK293T cells transfected with PIAS4 cDNA clone (Cat# [RC206748]) using MegaTran 2.0 (Cat# [TT210002]).