

## Product datasheet

# Recombinant Human PIAS3 protein ab125996

### Overview

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<b>Product name</b>	Recombinant Human PIAS3 protein
<b>Protein length</b>	Protein fragment

### Description

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<b>Nature</b>	Recombinant
<b>Source</b>	Escherichia coli
<b>Amino Acid Sequence</b>	
<b>Accession</b>	<a href="#">Q9Y6X2</a>
<b>Species</b>	Human
<b>Molecular weight</b>	27 kDa
<b>Amino acids</b>	274 to 521

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab125996** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE
<b>Form</b>	Lyophilised

### Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Store at -20°C. Constituents: 0.32% Tris HCl, 0.58% Sodium chloride
<b>Reconstitution</b>	Reconstitute with water to desired concentration.

### General Info

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<b>Function</b>	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 and the steroid hormone signaling pathway. Involved in regulating STAT3 signaling via inhibiting STAT3
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DNA-binding and suppressing cell growth. Enhances the sumoylation of MTA1 and may participate in its paralog-selective sumoylation (PubMed:21965678, PubMed:9388184). Sumoylates CCAR2 which promotes its interaction with SIRT1 (PubMed:25406032). Diminishes the sumoylation of ZFH3 by preventing the colocalization of ZFH3 with SUMO1 in the nucleus (PubMed:24651376).

<b>Tissue specificity</b>	Widely expressed.
<b>Pathway</b>	Protein modification; protein sumoylation.
<b>Sequence similarities</b>	Belongs to the PIAS family. Contains 1 PINIT domain. Contains 1 SAP domain. Contains 1 SP-RING-type zinc finger.
<b>Domain</b>	The PINIT domain of PIAS3 is required for STAT3-PIAS3 interaction and for translocation to the nucleus. The LXXLL motif is a transcriptional coregulator signature.
<b>Post-translational modifications</b>	Sumoylated.
<b>Cellular localization</b>	Cytoplasm. Nucleus. Nucleus speckle. Colocalizes with MITF in the nucleus. Colocalizes with GF11 in nuclear dots. Colocalizes with SUMO1 in nuclear granules.

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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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