

**PIAS3 Antibody (C-Terminus)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS13825****Specification**

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**PIAS3 Antibody (C-Terminus) - Product Information**

Application	<b>WB, IHC</b>
Primary Accession	<a href="#">O9Y6X2</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>68kDa KDa</b>

**PIAS3 Antibody (C-Terminus) - Additional Information****Gene ID** 10401**Other Names**

E3 SUMO-protein ligase PIAS3, 6.3.2.-, Protein inhibitor of activated STAT protein 3, PIAS3

**Target/Specificity**

Human PIAS3

**Reconstitution & Storage**

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

**Precautions**

PIAS3 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

**PIAS3 Antibody (C-Terminus) - Protein Information****Name** PIAS3**Function**

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 DNA-binding and suppressing cell growth. Enhances the sumoylation of MTA1 and may participate in its paralog-selective sumoylation (PubMed: [21965678](http://www.uniprot.org/citations/21965678), PubMed: [9388184](http://www.uniprot.org/citations/9388184)). Sumoylates CCAR2 which promotes its interaction with SIRT1 (PubMed: [25406032](http://www.uniprot.org/citations/25406032)). Diminishes the sumoylation of ZFH3 by preventing the colocalization of ZFH3 with SUMO1 in the nucleus (PubMed: [24651376](http://www.uniprot.org/citations/24651376)).

**Cellular Location**

Cytoplasm {ECO:0000250|UniProtKB:O54714}. Nucleus {ECO:0000250|UniProtKB:O54714}. Nucleus speckle {ECO:0000250|UniProtKB:O54714}. Note=Colocalizes with MITF in the nucleus. Colocalizes with GFI1 in nuclear dots. Colocalizes with SUMO1 in nuclear granules. {ECO:0000250|UniProtKB:O54714}

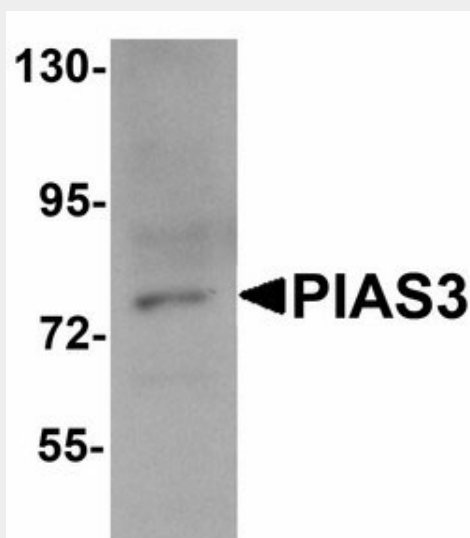
**Tissue Location**

Widely expressed..

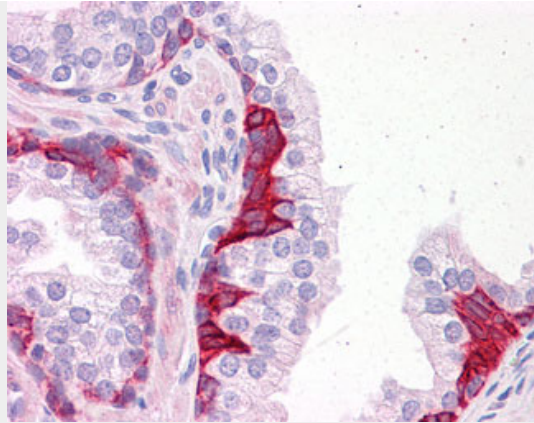
**PIAS3 Antibody (C-Terminus) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

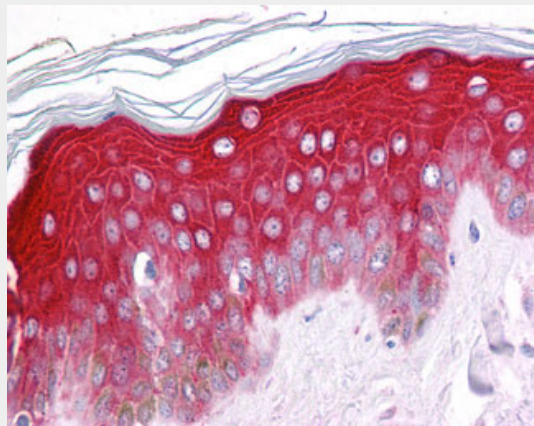
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**PIAS3 Antibody (C-Terminus) - Images**

Western blot of PIAS3 in K562 cell lysate with PIAS3 antibody at 1 ug/ml.



Anti-PIAS3 antibody IHC of human prostate.



Anti-PIAS3 antibody IHC of human skin.

### **PIAS3 Antibody (C-Terminus) - Background**

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### **PIAS3 Antibody (C-Terminus) - References**

- Ueki N., et al. J. Hum. Genet. 44:193-196(1999).
- Bechtel S., et al. BMC Genomics 8:399-399(2007).
- Chung C.D., et al. Science 278:1803-1805(1997).
- Junicho A., et al. Biochem. Biophys. Res. Commun. 278:9-13(2000).
- Roedel B., et al. EMBO J. 19:5845-5855(2000).