

**PIAS 3 Polyclonal Antibody** 

Catalog # AP71901

#### Specification

## **PIAS 3 Polyclonal Antibody - Product Information**

Application Primary Accession Reactivity Host Clonality WB, IHC-P <u>O9Y6X2</u> Human, Mouse, Rat Rabbit Polyclonal

#### **PIAS 3 Polyclonal Antibody - Additional Information**

Gene ID 10401

**Other Names** PIAS3; E3 SUMO-protein ligase PIAS3; Protein inhibitor of activated STAT protein 3

Dilution WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications. IHC-P~~N/A

**Format** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions** -20°C

#### **PIAS 3 Polyclonal Antibody - 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:<a href="http://www.uniprot.org/citations/21965678" target="\_blank">21965678</a>, PubMed:<a href="http://www.uniprot.org/citations/9388184" target="\_blank">9388184</a>). Sumoylates CCAR2 which promotes its interaction with SIRT1 (PubMed:<a href="http://www.uniprot.org/citations/25406032" target="\_blank">25406032</a>). Diminishes the sumoylation of ZFHX3 by preventing the colocalization of ZFHX3 with SUMO1 in the nucleus (PubMed:<a href="http://www.uniprot.org/citations/24651376" target="\_blank">24651376</a>).

**Cellular Location** 



Cytoplasm {ECO:0000250|UniProtKB:054714}. Nucleus {ECO:0000250|UniProtKB:054714}. Nucleus speckle {ECO:0000250|UniProtKB:054714}. Note=Colocalizes with MITF in the nucleus. Colocalizes with GFI1 in nuclear dots. Colocalizes with SUMO1 in nuclear granules. {ECO:0000250|UniProtKB:054714}

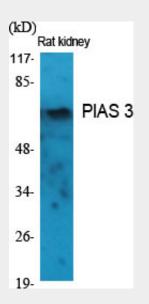
Tissue Location Widely expressed..

## **PIAS 3 Polyclonal Antibody - Protocols**

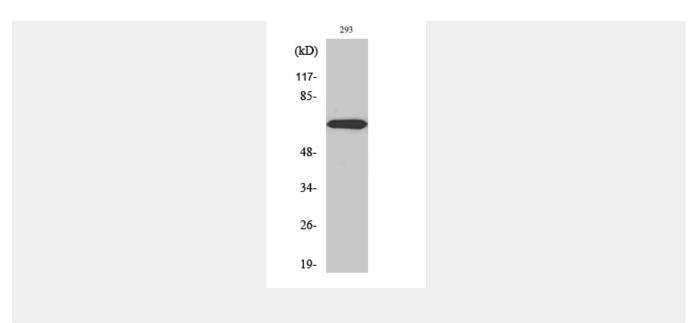
Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

### **PIAS 3 Polyclonal Antibody - Images**







# **PIAS 3 Polyclonal Antibody - Background**

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