

**Anti-PIAS3 Antibody**  
**Rabbit polyclonal antibody to PIAS3**  
**Catalog # AP59797****Specification**

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**Anti-PIAS3 Antibody - Product Information**

Application	<b>WB, IHC</b>
Primary Accession	<a href="#">O9Y6X2</a>
Other Accession	<a href="#">O54714</a>
Reactivity	<b>Human, Mouse, Rat, Pig, Bovine, Dog</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>68017</b>

**Anti-PIAS3 Antibody - Additional Information****Gene ID** 10401**Other Names**

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

**Target/Specificity**

Recognizes endogenous levels of PIAS3 protein.

**Dilution**

WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200)

IHC~~1:100~500

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-PIAS3 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 ZFH3 by preventing the colocalization of ZFH3 with SUMO1 in the nucleus (PubMed:<a href="http://www.uniprot.org/citations/24651376" target="\_blank">24651376</a>).

#### 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

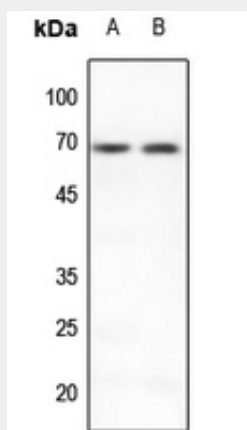
Widely expressed..

### Anti-PIAS3 Antibody - Protocols

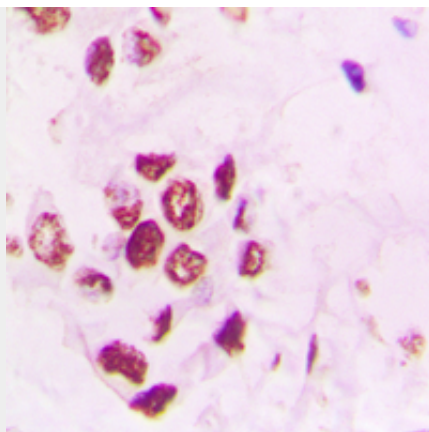
Provided below are standard protocols that you may find useful for product applications.

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

### Anti-PIAS3 Antibody - Images



Western blot analysis of PIAS3 expression in rat lung (A), rat spleen (B) whole cell lysates.



Immunohistochemical analysis of PIAS3 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

#### **Anti-PIAS3 Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human PIAS3. The exact sequence is proprietary.