

## Anti-PIAS3 (RABBIT) Antibody - 600-401-DM8

**Code:** 600-401-DM8

**Size:** 100 µg

**Product Description:** Anti-PIAS3 (RABBIT) Antibody - 600-401-DM8

**Concentration:** 1 mg/mL by UV absorbance at 280 nm

**PhysicalState:** Liquid (sterile filtered)

<b>Label</b>	Unconjugated
<b>Host</b>	Rabbit
<b>Gene Name</b>	PIAS3
<b>Species Reactivity</b>	Human, mouse, rat
<b>Buffer</b>	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
<b>Stabilizer</b>	None
<b>Preservative</b>	0.02% (w/v) Sodium Azide
<b>Storage Condition</b>	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
<b>Synonyms</b>	PIAS3 Antibody, ZMIZ5, E3 SUMO-protein ligase PIAS3, Protein inhibitor of activated STAT protein 3
<b>Application Note</b>	Anti-PIAS3 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 68 kDa in Western Blots of specific cell lysates and tissues.
<b>Background</b>	The PIAS (protein inhibitor of activated STAT) proteins play a crucial role as transcriptional coregulators in various cellular pathways, including the STAT, p53 and the steroid hormone signaling pathway. The PIAS protein family includes at least five evolutionarily conserved genes, including PIAS3. The major function of the PIAS proteins is the control of gene transcription and can also act as small ubiquitin-like-modifier (SUMO) E3 ligases. PIAS3 binds specifically to STAT3 following the stimulation of STAT3. Increased expression of PIAS3 has been observed in several human cancers, including lung, breast, and brain tumors, but not in anaplastic lymphoma kinase-positive T/null-cell lymphomas, indicating that PIAS3 plays multiple roles in different tissue and cell types.
<b>Purity And Specificity</b>	Anti-PIAS3 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with PIAS3 from other sources has not been determined.
<b>ELISA</b>	1:10,000
<b>Western Blot</b>	1 g/mL
<b>Immunohistochemistry</b>	5 g/mL
<b>IF Microscopy</b>	20 g/mL
<b>Expiration</b>	Expiration date is one (1) year from date of opening.
<b>Immunogen</b>	Anti-PIAS3 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 12 amino acid synthetic peptide near the C-terminus of human PIAS3.

### Related Products

200-301-401	Anti-AKT (MOUSE) Monoclonal Antibody - 200-301-401
611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302
BSA-50	BOVINE SERUM ALBUMIN - Fraction V (Immunoglobulin and Protease Free) - BSA-50
MB-070	Blocking Buffer for Fluorescent Western Blotting - MB-070

### Related Links

UniProtKB - Q9Y6X2

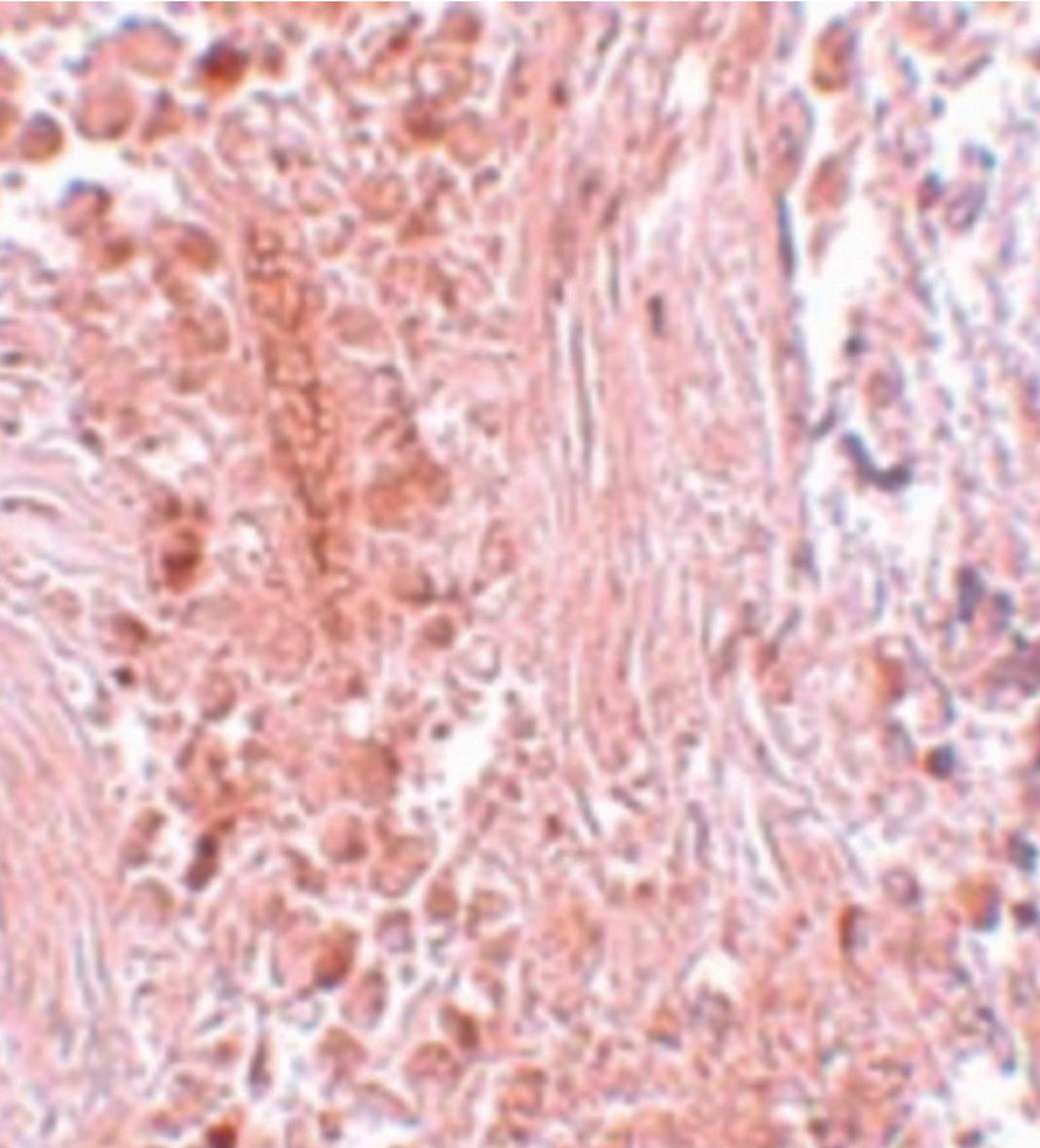
<http://www.uniprot.org/uniprot/Q9Y6X2>

GeneID - 10401 <http://www.ncbi.nlm.nih.gov/gene/10401>

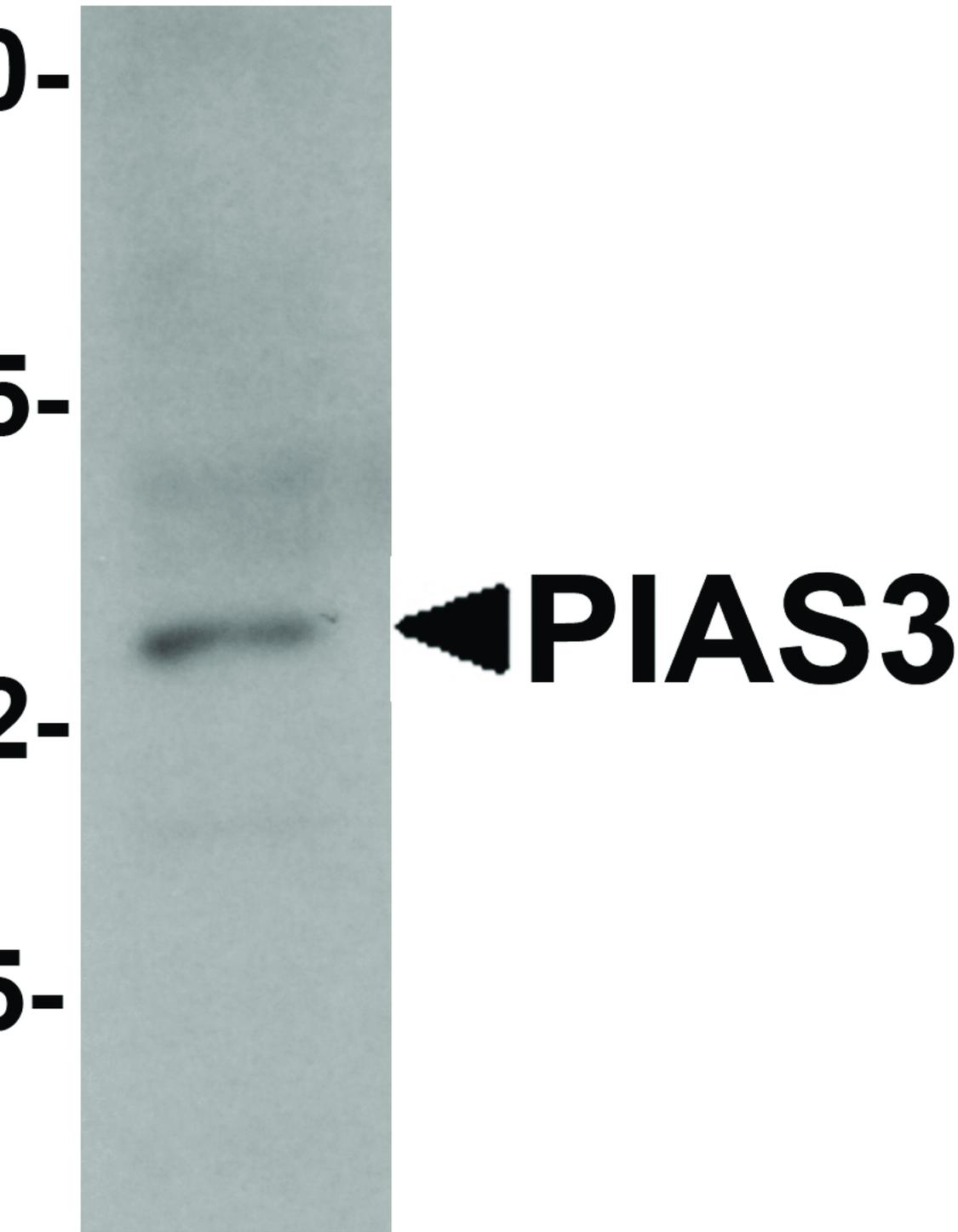
NCBI - NP\_006090

## Images

- 1 Immunohistochemistry of PIAS3 antibody. Tissue: Human breast carcinoma. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: PIAS3 antibody at 5  $\mu\text{g}/\text{mL}$  for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: PIAS3 is nuclear and cytoplasmic. Staining: PIAS3 as precipitated brown signal with purple counterstain.



- 2 Western Blot of PIAS3 antibody. Lane 1: K562 cell lysate with PIAS3 antibody at 1  $\mu\text{g}/\text{mL}$ . Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 68 kDa, 75 kDa for PIAS3. Other band(s): PIAS3 splice variants and isoforms.



**Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.