

Datasheet for 600-401-DM9**PIAS4 Antibody****Overview**

Description:	Anti-PIAS4 (RABBIT) Antibody - 600-401-DM9
Item No.:	600-401-DM9
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	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 PIAS4. 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. PIAS4 interacts with p53 and blocks its ability to induce Bax and p21 transcription. PIAS4 is also important in the control of the ubiquitin-dependent proteasomal degradation of the Ets-1 transcription factor. PIAS4 has been implicated in the DNA-damage response pathway and is thought to work in combination with PIAS1 for the productive association of 53BP1, BRCA1 and RNF168.
Synonyms:	PIAS4 Antibody, PIASY, Piasg, ZMIZ6, PIASG, E3 SUMO-protein ligase PIAS4, PIASy, PIAS-gamma
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PIAS4
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-PIAS4 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid synthetic peptide near the N-terminus of human PIAS4.

Purity/Specificity: Anti-PIAS4 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with PIAS4 from other sources has not been determined.

Relevant Links:

- [UniProtKB - Q8N2W9](#)
- [GeneID - 51588](#)
- [NCBI - NP_056981](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-PIAS4 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 57 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000

IF: 20 µg/mL

IHC: 5 µg/mL

WB: 1 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0mg/ml by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

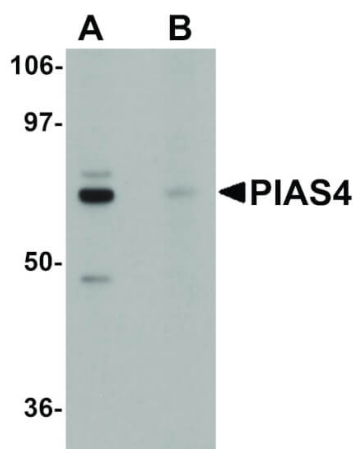
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: 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.

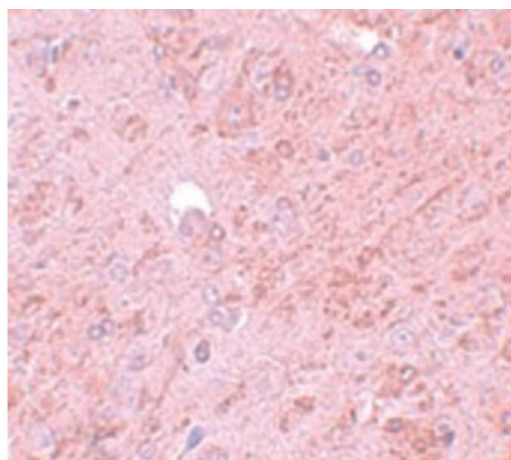
Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of PIAS4 antibody. Lane 1: Rat brain tissue lysate in the absence of blocking peptide. Lane 2: Rat brain tissue lysate in the presence of blocking peptide. Primary Antibody: with PIAS4 antibody at 1 µg/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: 57 kDa, 75 kDa for PIAS4. Other band(s): PIAS4 splice variants and isoforms.



Immunohistochemistry

Immunohistochemistry of PIAS4 antibody. Tissue: Rat brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: PIAS4 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: PIAS4 is nuclear. Staining: PIAS4 as precipitated pink signal with blue nuclear counterstain.

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.