

Datasheet for 600-401-GZ8**PIAS1 Antibody****Overview**

Description:	Anti-PIAS1 (RABBIT) Antibody - 600-401-GZ8
Item No.:	600-401-GZ8
Size:	100 µg
Applications:	Dot Blot, ELISA, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	The PIAS proteins (protein inhibitor of activated STAT) 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 PIAS1. 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. PIAS1 binds specifically to STAT1, inhibiting STAT1-mediated gene activation and also binds to the Gu/RNA helicase II enzyme, leading to the proteolytic cleavage of Gu/RH-II. PIAS1 is a potent co-activator for CP2c-mediated alpha-globin expression in erythroid cells. Anti-PIAS1 Antibody is useful for researchers interested in epigenetics and cancer research.
Synonyms:	Rabbit anti-PIAS1 Antibody, Protein Inhibitor Of Activated STAT 1, GBP, ZMIZ3, DDXBP1, DEAD/H (Asp-Glu-Ala-Asp/His) Box Binding Protein 1, GU/RH-II, E3 SUMO-protein ligase PIAS1, Gu-binding protein, GBP, AR Interacting Protein
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PIAS1
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-PIAS1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide from the internal region of human PIAS1.
Purity/Specificity:	Anti-PIAS1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest reactivity to mouse 92.9% homology for the immunogen sequence. Cross-reactivity from PIAS1 family and other sources has not been determined.
Relevant Links:	• GeneID - 8554 • NCBI - NP_057250 • UniProtKB - O75925

Application Details

Tested Applications:	Dot Blot, ELISA, WB
Application Note:	Anti-PIAS1 Antibody has been tested for use in ELISA, Western Blotting, and Dot Blotting. HEK293 WCL p/n (W09-000-365) and K-562 WCL p/n (W09-001-GJ7) were used as positive control lysates in western blot. Expect a band at approximately 72 kDa in Western Blots of specific cell lysates and tissues. Specific conditions for reactivity should be optimized by the end user. While not tested, it is likely Anti-PIAS1 antibody will work for immunofluorescence, IHC, and CHIP assays.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	5 µg/ml
IF:	User Optimized
WB:	1:1000

Formulation

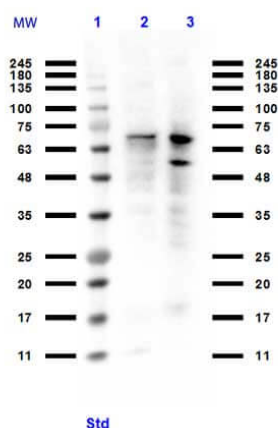
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
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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 PIAS1 antibody. Lane 1: MW ladder Opal pre-stained (p/n MB-210-0500). Lane 2: HEK293 whole cell lysate (p/n W09-000-365). Lane 3: K-562 whole cell lysate (p/n W09-001-GJ7). Primary Antibody: Anti-PIAS1 antibody at 1.0 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody (p/n 611-103-122) at 1:70,000 for 45 min at RT. Block: MB-070 overnight at 4°C. Predicted/Observed size: 72 kDa, 60 kDa for PIAS1. Other band(s): PIAS1 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.