

# Product Datasheet

## PIASy Antibody NB600-1318

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NB600-1318**

## PIASy Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS containing 0.05% BSA

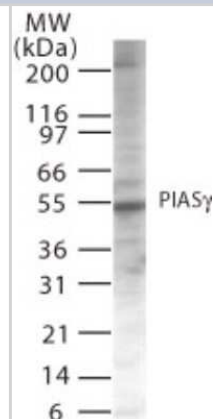
Product Description	
Description	Novus Biologicals Rabbit PIASy Antibody (NB600-1318) is a polyclonal antibody validated for use in WB and ICC/IF. Anti-PIASy Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	51588
Gene Symbol	PIAS4
Species	Human, Mouse, Rat
Immunogen	This polyclonal antibody was developed against a mixture of synthetic peptides corresponding to amino acids 46-60 (KKIKELYETRYAKKNC) and 187-198 (YSDTSCPQEDQY) of human PIASg; GenBank no. AAD45155.1 AF164437_1. These sequences are 95% and 100% homologous in mouse and rat.

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 3 - 5 ug/ml, Immunocytochemistry/ Immunofluorescence 1:10-1:2000. Use reported in scientific literature (Ihara et al (2005))
Application Notes	Western Blot: Detects a band of approximately 55 kDa.

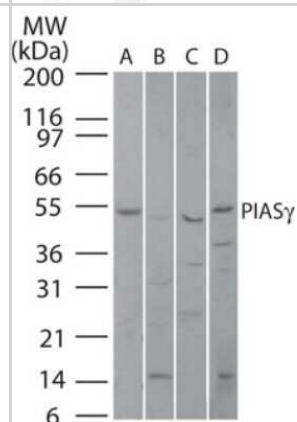


## Images

Western Blot: PIASy Antibody [NB600-1318] - Western blot analysis of PIAS $\gamma$  in Jurkat cell lysate using NB600-1318 at 2  $\mu$ g/ml.



Western Blot: PIASy Antibody [NB600-1318] - Analysis of PIAS $\gamma$  in A) human liver, B) mouse liver, C) rat liver and D) human Jurkat lysate using this antibody at 5  $\mu$ g/ml.



## Publications

Robert Siddaway, Scott Milos, Étienne Coyaud, Hwa Young Yun, Shahir M. Morcos, Sanja Pajovic, Eric I. Campos, Brian Raught, Cynthia Hawkins The in vivo Interaction Landscape of Histones H3.1 and H3.3 Molecular & Cellular Proteomics : MCP 2022-09-09 [PMID: 36089195]

Tong Hua, Shen Rong, Wang ZhuMing et al. DNA ploidy cytometry testing for cervical cancer screening in China (DNACIC Trial): a prospective randomized, controlled trial. Clin Cancer Res. 2009-10-15 [PMID: 19825960] (ICC/IF, Human)

Albor A, El-Hizawi S, Horn EJ et al. The interaction of Piasy with Trim32, an E3-ubiquitin ligase mutated in limb-girdle muscular dystrophy type 2H, promotes Piasy degradation and regulates UVB-induced keratinocyte apoptosis through NFkappaB. J Biol Chem. 2006-09-01 [PMID: 16816390] (ICC/IF, Trypanosoma brucei)

### Details:

IF/ICC (confocal microscopy): Fig 5 (primary human dermal fibroblasts).

Ihara M, Yamamoto H, Kikuchi A. SUMO-1 modification of PIASy, an E3 ligase, is necessary for PIASy-dependent activation of Tcf-4. Mol Cell Biol. 2005-05-01 [PMID: 15831457] (WB, ICC/IF)

### Details:

WB: Fg 1F (HeLa cell lysates immunoprecipitated with His6-SUMO-1). IF/ICC (confocal microscopy): Fig 3Aa (COS cells).

Brayman MJ, Dharmaraj N, Lagow E et al. MUC1 expression is repressed by protein inhibitor of activated signal transducer and activator of transcription-y. Mol Endocrinol. 2007-11-01 [PMID: 17717071] (ICC/IF, Human)

### Details:

IF/ICC (confocal microscopy): Fig 8B, F [HEC-1A cells stably transfected with human progesterone receptor B (PRB) and left untreated or treated with progesterone].

La Salle S, Sun F, Zhang XD et al. Developmental control of sumoylation pathway proteins in mouse male germ cells. Dev Biol. 2008-09-01 [PMID: 18602382] (WB)

### Details:

SAE2 (IMG-5111A), PIASg (IMG-290), SENP1 CT (IMG-521). WB: Male germ cells; leptotene/zygotene, prepubertal pachytene, and adult pachytene spermatocytes, Fig 5.

Zoumpoulidou G, Jones MC, Fernandez de Mattos S et al. Convergence of interferon-gamma and progesterone signaling pathways in human endometrium: role of PIASy (protein inhibitor of activated signal transducer and activator of transcription-y). Mol Endocrinol. 2004-08-01 [PMID: 15155784] (ICC/IF, WB, Human)

### Details:

WB: Fig 5A [primary human endometrial stromal cells (ESCs)]; IF/ICC (confocal microscopy): Fig 6C (PIASy or progesterone transfected ESCs).





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### **Products Related to NB600-1318**

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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP3-17791PEP	PIASy Recombinant Protein Antigen

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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