

**PIAS4 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14013a**

**Specification**

**PIAS4 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q8N2W9</a>
Other Accession	<a href="#">NP_056981.2</a>
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	56504
Antigen Region	44-73

**PIAS4 Antibody (N-term) - Additional Information**

**Gene ID** 51588

**Other Names**

E3 SUMO-protein ligase PIAS4, 632-, PIASy, Protein inhibitor of activated STAT protein 4, Protein inhibitor of activated STAT protein gamma, PIAS-gamma, PIAS4, PIASG

**Target/Specificity**

This PIAS4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 44-73 amino acids from the N-terminal region of human PIAS4.

**Dilution**

WB~~1:1000

**Format**

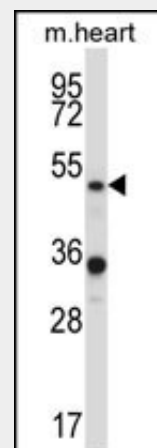
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

PIAS4 Antibody (N-term) is for research use



PIAS4 Antibody (N-term) (Cat. #AP14013a) western blot analysis in mouse heart tissue lysates (35ug/lane). This demonstrates the PIAS4 antibody detected the PIAS4 protein (arrow).

**PIAS4 Antibody (N-term) - Background**

PIAS4 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, the p53 pathway, the Wnt pathway and the steroid hormone signaling pathway. Involved in gene silencing. Promotes PARK7 sumoylation. In Wnt signaling, represses LEF1 and enhances TCF4 transcriptional activities through promoting their sumoylations.

**PIAS4 Antibody (N-term) - References**

Kang, X., et al. Oncogene 29(41):5568-5578(2010)  
Liu, Y., et al. J. Invest. Dermatol. 130(5):1384-1390(2010)  
Zhang, C., et al. Cell. Immunol. 263(2):235-240(2010)  
Wang, J., et al. J. Biol. Chem.

only and not for use in diagnostic or therapeutic procedures.

283(34):23235-23243(2008)  
Imoto, S., et al. Biochem. Biophys. Res. Commun. 370(2):359-365(2008)

#### **PIAS4 Antibody (N-term) - Protein Information**

**Name** PIAS4

**Synonyms** PIASG

#### **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, the p53/TP53 pathway, the Wnt pathway and the steroid hormone signaling pathway. Involved in gene silencing. Mediates sumoylation of CEBPA, PARK7, HERC2, MYB, TCF4 and RNF168. In Wnt signaling, represses LEF1 and enhances TCF4 transcriptional activities through promoting their sumoylations. Enhances the sumoylation of MTA1 and may participate in its paralog-selective sumoylation.

#### **Cellular Location**

Nucleus, PML body Note=Colocalizes with SUMO1 and TCF7L2/TCF4 and LEF1 in a subset of PML (promyelocytic leukemia) nuclear bodies

#### **Tissue Location**

Highly expressed in testis and, at lower levels, in spleen, prostate, ovary, colon and peripheral blood leukocytes

#### **PIAS4 Antibody (N-term) - 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](#)