



## Rabbit Anti-PIAS4/PIASy antibody

SL23480R

<b>Product Name:</b>	PIAS4/PIASy
<b>Chinese Name:</b>	激活STAT蛋白抑制因子4抗体
<b>Alias:</b>	E3 SUMO protein ligase PIAS4; E3 SUMO-protein ligase PIAS4; FLJ12419; MGC35296; PAIASgamma; PIAS 4; PIAS gamma; PIAS-gamma; PIAS4; PIAS4_HUMAN; PIASG; PIASgamma; PIASy; Protein inhibitor of activated STAT 4; Protein inhibitor of activated STAT protein 4; Protein inhibitor of activated STAT protein gamma; Protein inhibitor of activated STAT protein PIASy; Zinc finger MIZ type containing 6; ZMIZ 6; ZMIZ6.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Pig,Cow,Horse,Zebrafish,
<b>Applications:</b>	WB=1:500-2000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	55kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human PIAS4/PIASy :181-280/510
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	The IL-6-type family of cytokines, which includes IL-6 and a number of similar cytokines and growth factors, plays a significant role in regulating gene activation,

proliferation and differentiation. Transcription factors of the STAT family are involved in IL-6 family-mediated signal transduction pathways, and upon activation undergo phosphorylation, dimerization and translocation to the nucleus. The duration and intensity of a cell's response to cytokines can be adjusted by the effect of several regulatory mechanisms. One example involves the protein inhibitor of activated signal transducer and activator of transcription (STAT) family (PIAS family) of proteins, which act as negative regulators of STATs in cytokine signaling. PIAS proteins are able to coactivate steroid receptor-dependent transcription as well. Human PIASy is a 510 amino acid transcriptional corepressor of the androgen receptor (AR). In addition, PIASy may regulate p53-mediated events and may direct p53 into a transactivation-independent mode of apoptosis.

**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 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.

**Subcellular Location:**

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

**Tissue Specificity:**

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

**Post-translational modifications:**

Sumoylated. Lys-35 is the main site of sumoylation. Sumoylation is required for TCF4 sumoylation and transcriptional activation. Represses LEF1 transcriptional activity. SUMO1 is the preferred conjugate.

**Similarity:**

Belongs to the PIAS family.  
Contains 1 PINIT domain.  
Contains 1 SAP domain.  
Contains 1 SP-RING-type zinc finger.

**SWISS:**

Q8N2W9

**Gene ID:**

51588

**Database links:**

[Entrez Gene: 51588](#) Human

[Entrez Gene: 59004](#) Mouse

[Entrez Gene: 362827](#) Rat

[Omim: 605989](#) Human

[SwissProt: Q8N2W9](#) Human

[SwissProt: Q3UGQ2](#) Mouse

[SwissProt: Q9JM05](#) Mouse

[Unigene: 105779](#) Human

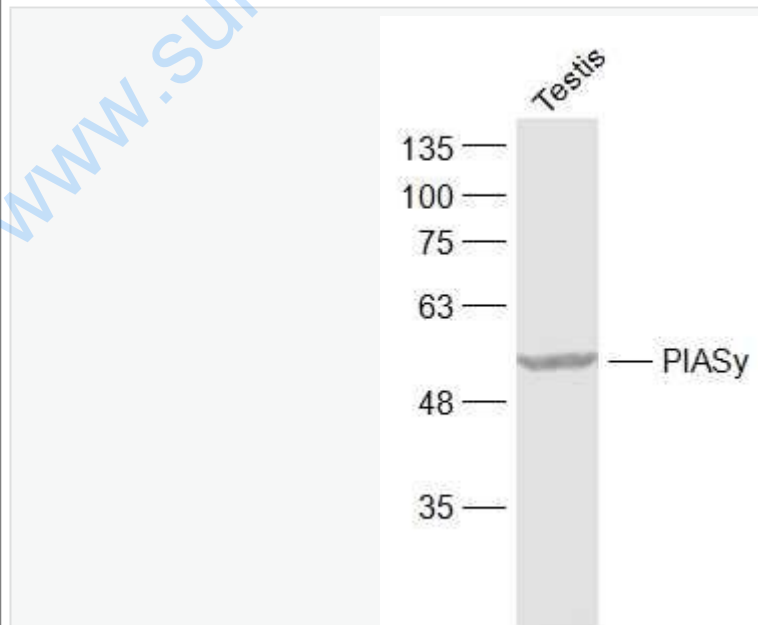
[Unigene: 34428](#) Mouse

[Unigene: 12810](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Picture:**



Sample:

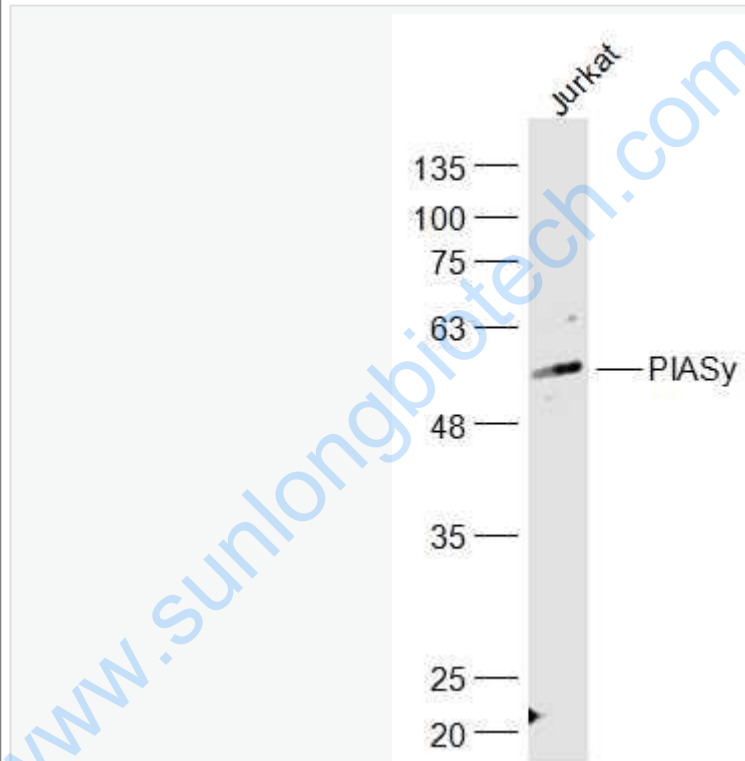
Testis (Rat) Lysate at 40 ug

Primary: Anti-PIASy (SL23480R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 55 kD

Observed band size: 55 kD



Sample:

Jurkat(Human) Cell Lysate at 30 ug

Primary: Anti-PIASy (SL23480R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 55 kD

Observed band size: 55 kD

