

## Product datasheet for **TA319932**

### E3 SUMO protein ligase PIAS4 (PIAS4) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1 ug/mL, ICC: 5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	PIAS4 antibody was raised against a 19 amino acid synthetic peptide near the amino terminus of human PIAS4.
Formulation:	PIAS4 Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	PIAS4 Antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	protein inhibitor of activated STAT 4
Database Link:	<a href="#">NP_056981</a> <a href="#">Entrez Gene 59004 Mouse</a> <a href="#">Entrez Gene 362827 Rat</a> <a href="#">Entrez Gene 51588 Human</a> <a href="#">Q8N2W9</a>



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**Background:**

PIAS4 Antibody: 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:**

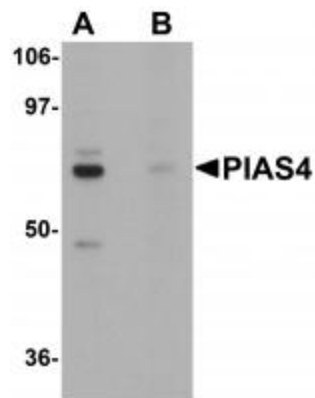
PIAS-gamma; Piasg; PIASY; ZMIZ6

**Protein Families:**

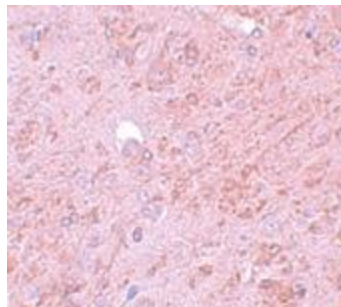
Transcription Factors

**Protein Pathways:**

Jak-STAT signaling pathway, Pathways in cancer, Small cell lung cancer, Ubiquitin mediated proteolysis

**Product images:**

Western blot analysis of PIAS4 in rat brain tissue lysate with PIAS4 antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of PIAS4 in rat brain tissue with PIAS4 antibody at 5 ug/mL.