

## Product datasheet for **TA319754**

### PIAS1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, 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:	PIAS1 antibody was raised against a 15 amino acid synthetic peptide near the carboxy terminus of human PIAS1.
Formulation:	PIAS1 Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	PIAS1 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 1
Database Link:	<a href="#">NP_057250</a> <a href="#">Entrez Gene 56469 Mouse</a> <a href="#">Entrez Gene 300772 Rat</a> <a href="#">Entrez Gene 8554 Human</a> <a href="#">O75925</a>
Background:	PIAS1 Antibody: 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.
Synonyms:	DDXBP1; GBP; GU; RH-II; ZMIZ3

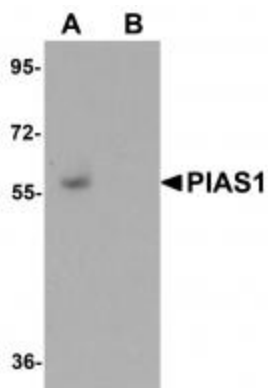


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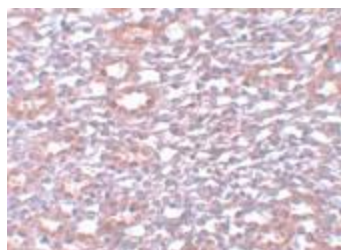
**Protein Families:** Druggable Genome, Transcription Factors

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

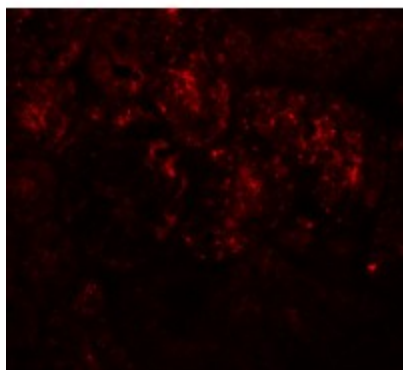
**Product images:**



Western blot analysis of PIAS1 in human kidney tissue lysate with PIAS1 antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of PIAS1 in rat kidney tissue with PIAS1 antibody at 5 ug/mL.



Immunofluorescence of PIAS1 in rat kidney tissue with PIAS1 antibody at 20 ug/mL.