

Product datasheet for **TA302212**

PIAS1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:1000, IHC: 1:50~100
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	This PIAS1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 100-130 amino acids from the N-terminal region of human PIAS1.
Formulation:	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Concentration:	lot specific
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	71835 Da
Gene Name:	protein inhibitor of activated STAT 1
Database Link:	NP_057250 Entrez Gene 8554 Human O75925
Background:	PIAS1 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. This protein plays a crucial role in transcriptional coregulation of various cellular pathways, including the STAT pathway, the p53 pathway and the steroid hormone signaling pathway. It functions in testis as a nuclear receptor transcriptional coregulator and may have a role in androgen receptor initiation and maintenance of spermatogenesis. The effects of transcriptional coregulation, transactivation or silencing, may vary depending upon the biological context.



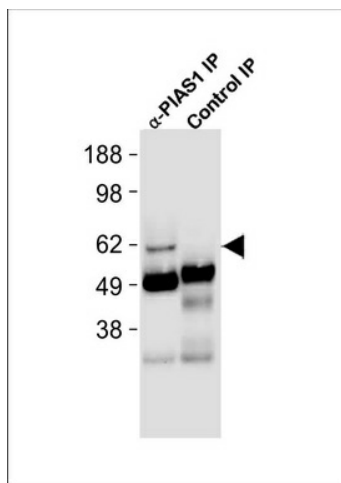
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Synonyms: DDXBP1; GBP; GU; RH-II; ZMIZ3

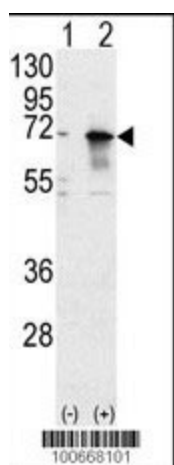
Protein Families: Druggable Genome, Transcription Factors

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

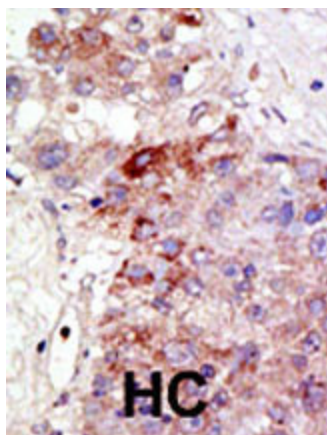
Product images:



HEK293 cell extracts were prepared and immunoprecipitated with TA302212 (left lane alpha-PIAS1 IP) or a control antibody (right lane Control IP), followed by Western blotting with TA302212. Taken from Polyakova o, Borman S, Grimley R, Vamathevan J, Hayes B. et al. (2012) Identification of Novel interacting Partners of Sirtuin6. Plos ONE 7 (12): e51555. doi: 10.1371/journal.pone.0051555



Western blot analysis of PIAS1 (arrow) using rabbit polyclonal PIAS1 Antibody (N-term) (RB00668). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PIAS1 gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.