

Product datasheet for **TA302213**

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 607-637 amino acids from the C-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.

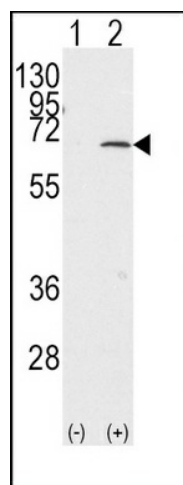
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Synonyms: DDXBP1; GBP; GU; RH-II; ZMIZ3

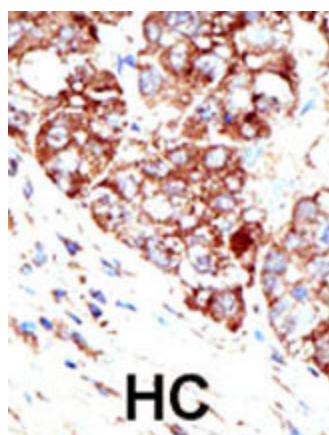
Protein Families: Druggable Genome, Transcription Factors

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

Product images:



Western blot analysis of PIAS1 (arrow) using rabbit polyclonal PIAS1 Antibody (C-term) (Cat.#TA302213). 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.