

Product Name: KD-Validated PIAS1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00003**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 71.8kDa

Antigen Information

Gene Name	PIAS1
Alternative Names	PIAS1; Protein Inhibitor Of Activated STAT 1; GBP; GU/RH-II; DDXBP1; ZMIZ3; DEAD/H (Asp-Glu-Ala-Asp/His) Box Binding Protein 1; Protein Inhibitor Of Activated STAT Protein 1; Zinc Finger, MIZ-Type Containing 3; E3 SUMO-Protein Transferase PIAS1; RNA Helicase II-Binding Protein; E3 SUMO-Protein Ligase PIAS1; DEAD/H Box-Binding Protein 1; Gu-Binding Protein; AR Interacting Protein; EC 2.3.2.-
Gene ID	8554.0
SwissProt ID	O75925
Immunogen	A synthesized peptide derived from human PIAS1

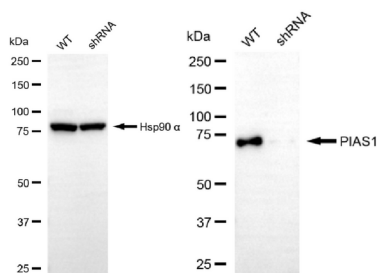
Background

This gene encodes a member of the protein inhibitor of activated STAT (PIAS) family. PIAS proteins function as SUMO E3 ligases and play important roles in many cellular processes by mediating the sumoylation of target proteins. This protein plays a central role as a transcriptional coregulator of numerous cellular pathways including the STAT1 and nuclear factor kappaB pathways. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]

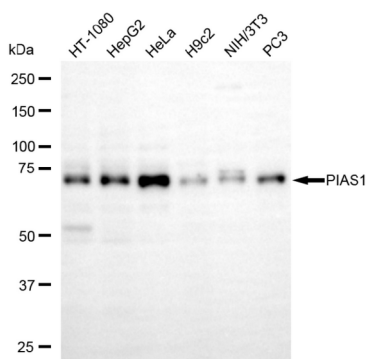
Research Area

Epigenetics and Nuclear Signaling

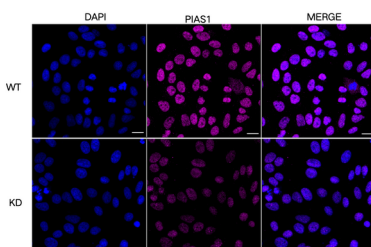
Image Data



Western blotting analysis using PIAS1 antibody (KVA000003). PIAS1 expression in wild-type (WT) and PIAS1 shRNA knockdown (KD) HepG2 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PIAS1 antibody (KVA000003, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using PIAS1 antibody (KVA000003). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PIAS1 antibody (KVA000003, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells using PIAS1 antibody (KVA000003, 1:1,000), Top panel: wild-type (WT); Bottom panel: PIAS1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; PIAS1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.