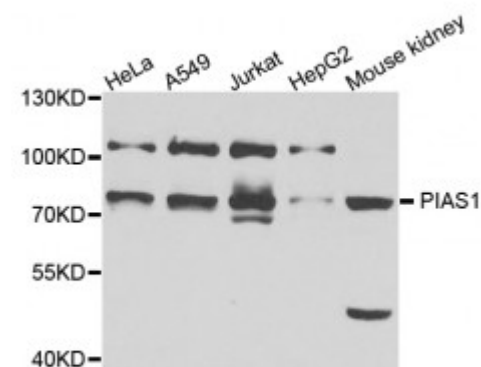


Anti-PIAS1 Antibody



Description

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.

Model	STJ114913
Host	Rabbit
Reactivity	Human, Mouse
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 422-651 of human PIAS1 (NP_057250.1).
Gene ID	8554
Gene Symbol	PIAS1
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	Expressed in numerous tissues with highest level in testis
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	E3 SUMO-protein ligase PIAS1
Molecular Weight	71.836 kDa

Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:2752OMIM:603566Reactome:R-HSA-3108214
Alternative Names	E3 SUMO-protein ligase PIAS1
Function	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, Plays a crucial role as a transcriptional coregulation in various cellular pathways, including the STAT pathway, the p53 pathway and the steroid hormone signaling pathway, In vitro, binds A/T-rich DNA, The effects of this transcriptional coregulation, transactivation or silencing, may vary depending upon the biological context, Together with PRMT1, may repress STAT1 transcriptional activity, in the late phase of interferon gamma (IFN-gamma) signaling, Sumoylates PML (at'Lys-65' and 'Lys-160') and PML-RAR and promotes their ubiquitin-mediated degradation, PIAS1-mediated sumoylation of PML promotes its interaction with CSNK2A1/CK2 which in turn promotes PML phosphorylation and degradation , Enhances the sumoylation of MTA1 and may participate in its paralog-selective sumoylation, Plays a dynamic role in adipogenesis by promoting the SUMOylation and degradation of CEBPB ,
Cellular Localization	Nucleus speckle,
Post-translational Modifications	Sumoylated,