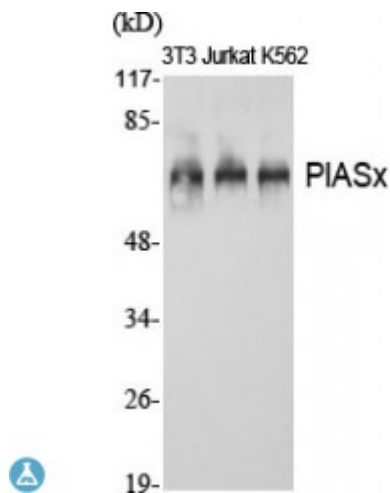


Anti-PIASx antibody



Description	Rabbit polyclonal to PIASx.
Model	STJ95084
Host	Rabbit
Reactivity	Human, Mouse, Rat, Simian
Applications	ELISA, WB
Immunogen	Synthesized peptide derived from human PIASx
Immunogen Region	10-90 aa, N-terminal
Gene ID	9063
Gene Symbol	PIAS2
Dilution range	WB 1:500-1:2000ELISA 1:20000
Specificity	PIASx Polyclonal Antibody detects endogenous levels of PIASx protein.
Tissue Specificity	Mainly expressed in testis. Isoform 3 is expressed predominantly in adult testis, weakly in pancreas, embryonic testis and sperm, and at very low levels in other organs.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	E3 SUMO-protein ligase PIAS2 Androgen receptor-interacting protein 3 ARIP3 DAB2-interacting protein DIP Msx-interacting zinc finger protein Miz1 PIAS-NY protein Protein inhibitor of activated STAT x Pr

Molecular Weight	62 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:17311 OMIM:603567
Alternative Names	E3 SUMO-protein ligase PIAS2 Androgen receptor-interacting protein 3 ARIP3 DAB2-interacting protein DIP Msx-interacting zinc finger protein Miz1 PIAS-NY protein Protein inhibitor of activated STAT x Pr
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 coregulator in various cellular pathways, including the STAT pathway, the p53 pathway and the steroid hormone signaling pathway. The effects of this transcriptional coregulation, transactivation or silencing may vary depending upon the biological context and the PIAS2 isoform studied. However, it seems to be mostly involved in gene silencing. Binds to sumoylated ELK1 and enhances its transcriptional activity by preventing recruitment of HDAC2 by ELK1, thus reversing SUMO-mediated repression of ELK1 transactivation activity. Isoform PIAS2-beta, but not isoform PIAS2-alpha, promotes MDM2 sumoylation. Isoform PIAS2-alpha promotes PARK7 sumoylation. Isoform PIAS2-beta promotes NCOA2 sumoylation more efficiently than isoform PIAS2-alpha. Isoform PIAS2-alpha sumoylates PML at 'Lys-65' and 'Lys-160'.
Sequence and Domain Family	The LXXLL motif is a transcriptional coregulator signature.
Cellular Localization	Nucleus speckle Nucleus, PML body Nucleus. Colocalizes at least partially with promyelocytic leukemia nuclear bodies (PML NBs) . Colocalizes with SUMO1 in nuclear granules .
Post-translational Modifications	Sumoylated.