

Anti-PIASy antibody



Description	Rabbit polyclonal to PIASy.
Model	STJ95085
Host	Rabbit
Reactivity	Human, Mouse
Applications	ELISA, IHC, WB
Immunogen	Synthesized peptide derived from human PIASy
Immunogen Region	420-500 aa, C-terminal
Gene ID	51588
Gene Symbol	PIAS4
Dilution range	WB 1:500-1:2000IHC 1:100-1:300ELISA 1:20000
Specificity	PIASy Polyclonal Antibody detects endogenous levels of PIASy protein.
Tissue Specificity	Highly expressed in testis and, at lower levels, in spleen, prostate, ovary, colon and peripheral blood leukocytes.
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 PIAS4 PIASy Protein inhibitor of activated STAT protein 4 Protein inhibitor of activated STAT protein gamma PIAS-gamma RING-type E3 ubiquitin transferase PIAS4
Molecular Weight	56 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:17002OMIM:605989
Alternative Names	E3 SUMO-protein ligase PIAS4 PIASy Protein inhibitor of activated STAT protein 4 Protein inhibitor of activated STAT protein gamma PIAS-gamma RING-type E3 ubiquitin transferase PIAS4
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/TP53 pathway, the Wnt pathway and the steroid hormone signaling pathway. Involved in gene silencing. Mediates sumoylation of CEBPA, PARK7, HERC2, MYB, TCF4 and RNF168. In Wnt signaling, represses LEF1 and enhances TCF4 transcriptional activities through promoting their sumoylations. Enhances the sumoylation of MTA1 and may participate in its paralog-selective sumoylation.
Sequence and Domain Family	The LXXLL motif is a coregulator signature that is essential for transcriptional corepression.
Cellular Localization	Nucleus, PML body. Colocalizes with SUMO1 and TCF7L2/TCF4 and LEF1 in a subset of PML (promyelocytic leukemia) nuclear bodies.
Post-translational Modifications	Sumoylated. Lys-35 is the main site of sumoylation. Sumoylation is required for TCF4 sumoylation and transcriptional activation. Represses LEF1 transcriptional activity. SUMO1 is the preferred conjugate.