



PIASy rabbit pAb

Cat No.:ES6540

For research use only

Overview

Product Name	PIASy rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human PIAS4. AA range:451-500
Specificity	PIASy Polyclonal Antibody detects endogenous levels of PIASy protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	E3 SUMO-protein ligase PIAS4
Gene Name	PIAS4
Cellular localization	Nucleus, PML body . Colocalizes with SUMO1 and TCF7L2/TCF4 and LEF1 in a subset of PML (promyelocytic leukemia) nuclear bodies. .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	56kD
Human Gene ID	51588
Human Swiss-Prot Number	Q8N2W9
Alternative Names	PIAS4; PIASG; E3 SUMO-protein ligase PIAS4; PIASy; Protein inhibitor of activated STAT protein 4; Protein inhibitor of activated STAT protein gamma; PIAS-gamma
Background	domain:The LXXLL motif is a coregulator signature





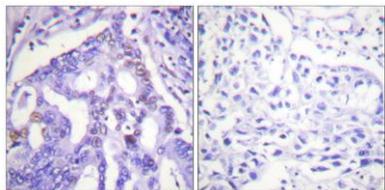
that is essential for transcriptional corepression. **function:** Functions as an E3-type small ubiquitin-like modifier (SUMO) ligase, stabilizing the interaction between UBE2I and the substrate, and as a SUMO-tethering factor. Plays a crucial role as a transcriptional coregulation in various cellular pathways, including the STAT pathway, the p53 pathway, the Wnt pathway and the steroid hormone signaling pathway. Involved in gene silencing. Promotes PARK7 sumoylation. In Wnt signaling, represses LEF1 and enhances TCF4 transcriptional activities through promoting their sumoylations. **pathway:** Protein modification; protein sumoylation. **PTM:** 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. **similarity:** Belongs to the PIAS family. **similarity:** Contains 1 SAP domain. **similarity:** Contains 1 SP-RING-type zinc finger. **subcellular location:** Colocalizes with SUMO1 and TCF7L2/TCF4 and LEF1 in a subset of PML (promyelocytic leukemia) nuclear bodies. **subunit:** Interacts with AR, GATA2, LEF1, TP53 and STAT1 (IFNG-induced). Binds to AT-rich DNA sequences, known as matrix or scaffold attachment regions (MARs/SARs) (By similarity). Interacts with TICAM1. Interacts with KLF8; the interaction results in SUMO ligation and repression of KLF8 transcriptional activity and of its cell cycle progression into G(1) phase. **tissue specificity:** Highly expressed in testis and, at lower levels, in spleen, prostate, ovary, colon and peripheral blood leukocytes.



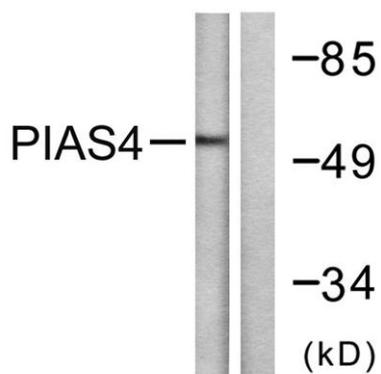


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Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using PIAS4 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from Jurkat cells, using PIAS4 Antibody. The lane on the right is blocked with the synthesized peptide.



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