Best Tools for immunology Research

PIASy Polyclonal Antibody

Catalog No :	YT3720
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	PIASy
Fields :	>>NF-kappa B signaling pathway;>>Ubiquitin mediated proteolysis;>>JAK-STAT signaling pathway;>>Fluid shear stress and atherosclerosis
Gene Name :	PIAS4
Protein Name :	E3 SUMO-protein ligase PIAS4
Human Gene Id :	51588
Human Swiss Prot No :	Q8N2W9
Mouse Gene Id :	59004
Mouse Swiss Prot No :	Q9JM05
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.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 56kD

Cell Pathway : Ubiquitin mediated proteolysis;Jak_STAT;Pathways in cancer;Small cell lung cancer;

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 activitation. 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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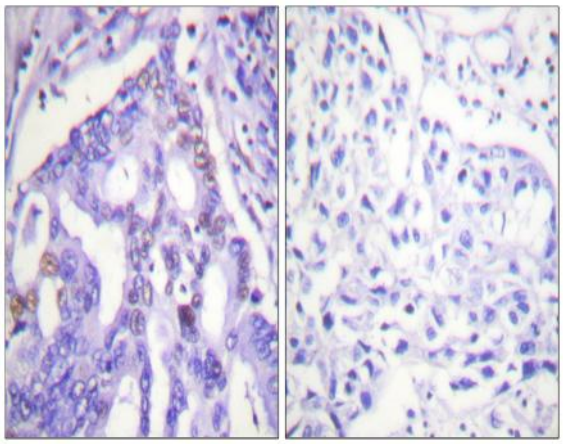
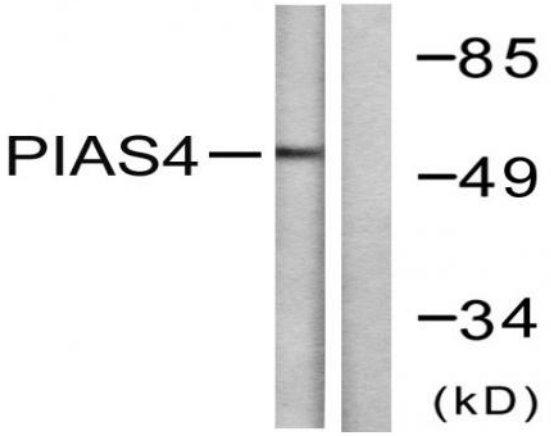
Subcellular Location : Nucleus, PML body . Colocalizes with SUMO1 and TCF7L2/TCF4 and LEF1 in a subset of PML (promyelocytic leukemia) nuclear bodies. .

Expression : Highly expressed in testis and, at lower levels, in spleen, prostate, ovary, colon and peripheral blood leukocytes.

Products Images



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.