

PIAS 1 Polyclonal Antibody

Catalog No :	YT3717
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	PIAS1
Fields :	>>Ubiquitin mediated proteolysis;>>JAK-STAT signaling pathway;>>Hepatitis C
Gene Name :	PIAS1
Protein Name :	E3 SUMO-protein ligase PIAS1
Human Gene Id :	8554
Human Swiss Prot No :	O75925
Mouse Gene Id :	56469
Mouse Swiss Prot No :	O88907
Immunogen :	The antiserum was produced against synthesized peptide derived from human PIAS1. AA range:10-59
Specificity :	PIAS 1 Polyclonal Antibody detects endogenous levels of PIAS 1 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: 1:10000.. 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 : 72kD

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

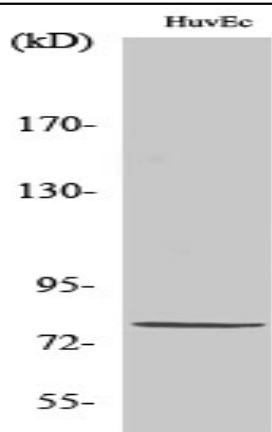
Background : This gene encodes a member of the protein inhibitor of activated STAT (PIAS) family. PIAS proteins function as SUMO E3 ligases and play important roles in many cellular processes by mediating the sumoylation of target proteins. This protein plays a central role as a transcriptional coregulator of numerous cellular pathways including the STAT1 and nuclear factor kappaB pathways. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016],

Function : domain:The LXXLL motif is a transcriptional coregulator signature.,domain:The SP-RING-type domain is required for promoting EKLF sumoylation.,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. The effects of this transcriptional coregulation, transactivation or silencing, may vary depending upon the biological context.,pathway:Protein modification; protein sumoylation.,PTM:Sumoylated.,similarity:Belongs to the PIAS family.,similarity:Contains 1 SAP domain.,similarity:Contains 1 SP-RING-type zinc finger.,subcellular location:Interaction with CSR2 may induce a partial redistribution along the cytoskele

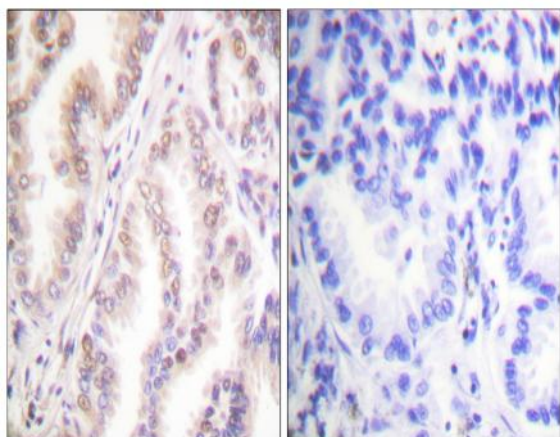
Subcellular Location : Nucleus speckle . Nucleus, PML body . Interaction with CSR2 may induce a partial redistribution along the cytoskeleton.

Expression : Expressed in numerous tissues with highest level in testis.

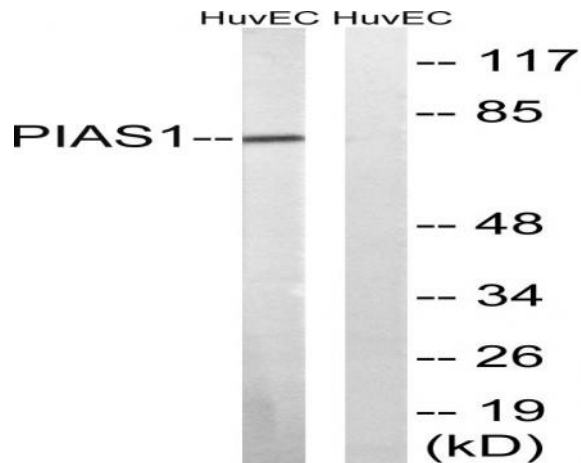
Products Images



Western Blot analysis of various cells using PIAS 1 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using PIAS1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HUVEC cells, using PIAS1 Antibody. The lane on the right is blocked with the synthesized peptide.