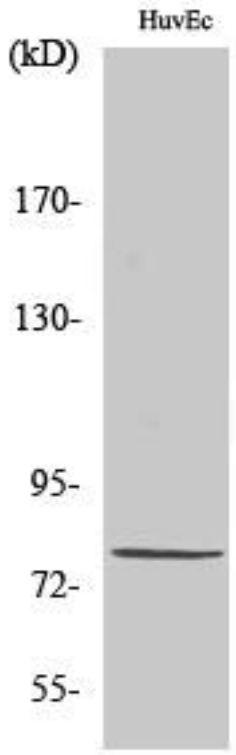
PIAS 1 Monoclonal Antibody

Catalog No	YP-mAb-04085
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB
Gene Name	PIAS1
Protein Name	E3 SUMO-protein ligase PIAS1
Immunogen	The antiserum was produced against synthesized peptide derived from human PIAS1. AA range:10-59
Specificity	PIAS 1 Monoclonal Antibody detects endogenous levels of PIAS 1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PIAS1; DDXBP1; E3 SUMO-protein ligase PIAS1; DEAD/H box-binding protein 1; Gu-binding protein; GBP; Protein inhibitor of activated STAT protein 1; RNA helicase II-binding protein
Observed Band	72kD
Cell Pathway	Nucleus speckle . Nucleus, PML body . Interaction with CSRP2 may induce a partial redistribution along the cytoskeleton.
Tissue Specificity	Expressed in numerous tissues with highest level in testis.
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 CSRP2 may induce a partial redistribution along the cytoskele

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 includign the STAT1 and nuclear factor kapMAB pathways. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using PIAS 1 Monoclonal Antibody