

PIAS2 Antibody

Rabbit mAb Catalog # AP92458

Product Information

Application	WB, IF, ICC
Primary Accession	<u>O75928</u>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	DIP; MIZ; MIZ1; SIZ2; ARIP3; PIASX; ZMIZ4; PIASX-BETA; PIASX-ALPHA;
lsotype	Rabbit IgG
Host	Rabbit
Calculated MW	68240

Additional Information

Dilution Purification Immunogen Description	WB 1:500~1:2000 ICC/IF 1:50~1:200 Affinity-chromatography A synthesized peptide derived from human PIAS2 Functions as an E3-type small ubiquitin-like modifier (SUMO) ligase, stabilizing
Description	the interaction between UBE2I and the substrate, and as a SUMO-tethering factor. Plays a crucial role as a transcriptional coregulator in various cellular pathways, including the STAT pathway, the p53 pathway and the steroid hormone signaling pathway.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	PIAS2
Synonyms	PIASX
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 coregulator 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 and the PIAS2 isoform studied. However, it seems to be mostly involved in gene silencing. Binds to sumoylated ELK1 and enhances its transcriptional activity by preventing recruitment of HDAC2 by ELK1, thus reversing SUMO-mediated repression of ELK1 transactivation activity. Isoform PIAS2-beta, but not isoform PIAS2-alpha, promotes MDM2 sumoylation. Isoform PIAS2-alpha promotes PARK7 sumoylation. Isoform PIAS2-beta

	promotes NCOA2 sumoylation more efficiently than isoform PIAS2-alpha. Isoform PIAS2-alpha sumoylates PML at'Lys-65' and 'Lys-160'.
Cellular Location	Nucleus speckle {ECO:0000250 UniProtKB:Q8C5D8}. Nucleus, PML body. Nucleus. Note=Colocalizes at least partially with promyelocytic leukemia nuclear bodies (PML NBs) (PubMed:22406621) Colocalizes with SUMO1 in nuclear granules (By similarity) {ECO:0000250 UniProtKB:Q8C5D8, ECO:0000269 PubMed:22406621}
Tissue Location	Mainly expressed in testis. Isoform 3 is expressed predominantly in adult testis, weakly in pancreas, embryonic testis and sperm, and at very low levels in other organs

Images



Western blot analysis of PIAS2 expression in HepG2 cell lysate.

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