



PIAS 3 Monoclonal Antibody

Catalog No	YP-mAb-04086
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	PIAS3
Protein Name	E3 SUMO-protein ligase PIAS3
Immunogen	The antiserum was produced against synthesized peptide derived from human PIAS3. AA range:10-59
Specificity	PIAS 3 Monoclonal Antibody detects endogenous levels of PIAS 3 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	PIAS3; E3 SUMO-protein ligase PIAS3; Protein inhibitor of activated STAT protein 3
Observed Band	68kD
Cell Pathway	Cytoplasm . Nucleus . Nucleus speckle . Colocalizes with MITF in the nucleus. Colocalizes with GFI1 in nuclear dots. Colocalizes with SUMO1 in nuclear granules. .
Tissue Specificity	Widely expressed.
Function	domain:The LXXLL motif is a transcriptional coregulator signature.,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 and the steroid hormone signaling pathway. The effects of this transcriptional coregulation, transactivation or silencing, may vary depending upon the biological context.,induction:By dihydrotestosterone in prostate cancer cells.,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.,subunit:Binds SUMO1 and UBE2I. Interacts with AR, GFI1, HMGA2, IRF1, MITF, NCOA2, as well as with STAT3, after treatment with IL6, C



Background

This gene encodes a member of the PIAS [protein inhibitor of activated STAT (signal transducer and activator of transcription)] family of transcriptional modulators. The protein functions as a SUMO (small ubiquitin-like modifier)-E3 ligase which catalyzes the covalent attachment of a SUMO protein to specific target substrates. It directly binds to several transcription factors and either blocks or enhances their activity. Alternatively spliced transcript variants of this gene have been identified, but the full-length nature of some of these variants has not been determined. [provided by RefSeq, Jul 2008],

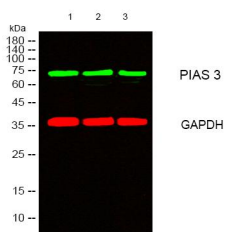
matters needing attention

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 3 Monoclonal Antibody