Product Name: PIAS 3 Rabbit Polyclonal Antibody
Catalog #: APRab16120
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000
Molecular Weight	68kDa

Antigen Information

Gene Name	PIAS3
Alternative Names	PIAS3; E3 SUMO-protein ligase PIAS3; Protein inhibitor of activated STAT protein 3
Gene ID	10401.0
SwissProt ID	Q9Y6X2
Immunogen	The antiserum was produced against synthesized peptide derived from human PIAS3. AA range:10-59

Background

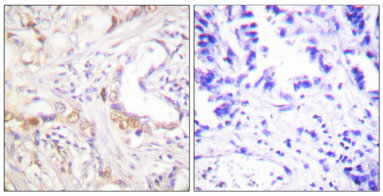
This gene encodes a member of the PIAS [protein inhibitor of activated STAT (signal transducer and activator of transcription)]

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],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, CNTF or OSM and with STAT5, after PRL stimulation (By similarity). Interacts with PLAG1.,tissue specificity:Widely expressed.,

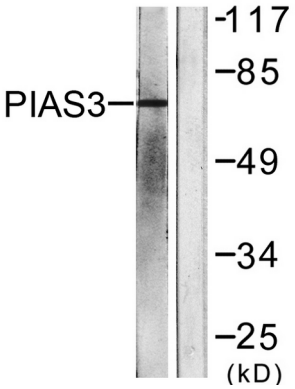
Research Area

Ubiquitin mediated proteolysis;Jak_STAT;Pathways in cancer;Small cell lung cancer;

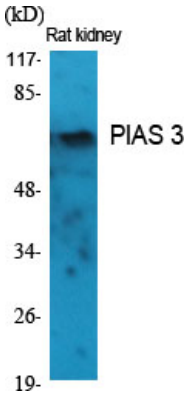
Image Data



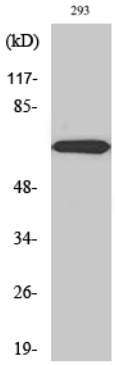
Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using PIAS3 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from 293 cells, treated with UV 5 ', using PIAS3 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using PIAS 3 Polyclonal Antibody diluted at 1: 2000.



Western Blot analysis of 293 cells using PIAS 3 Polyclonal Antibody diluted at 1 : 2000.