

Rabbit PIAS3 Polyclonal Antibody | anti-PIAS3 antibody

PIAS3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320915	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

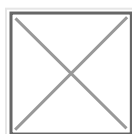
PRODUCT SYNONYMS

PIAS3; Polyclonal Antibody; PIAS3 Antibody; E3 SUMO protein ligase PIAS 3; E3 SUMO protein ligase PIAS3; E3 SUMO-protein ligase PIAS3; FLJ14651; OTTHUMP00000015586; OTTHUMP00000015587; PIAS 3; Pias3; PIAS3 protein; PIAS3_HUMAN; Protein inhibitor of activated STAT 3; Protein inhibitor of activated STAT protein 3; Protein inhibitor of activated STAT3; Zinc finger MIZ type containing 5; ZMIZ 5; ZMIZ5; anti-PIAS3 antibody

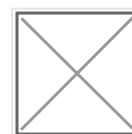
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PIAS3 antibody detects endogenous levels of total PIAS3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	628
Applicable Applications for anti-PIAS3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PIAS3
Subcellular Location	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.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES


WB (Western Blot)

Western blot analysis of extracts from mouse heart, using PIAS3 Antibody.

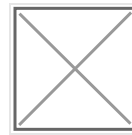

WB (Western Blot)

Western blot analysis on 293 cell lysate using PIAS3 Antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA320915 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



IHC (Immunohistochemistry)

AAA320915 at 1/100 staining human brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-PIAS3 antibody

Description: PIAS3 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. Belongs to the PIAS family.

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. Involved in regulating STAT3 signaling via inhibiting STAT3 DNA-binding and suppressing cell growth. Enhances the sumoylation of MTA1 and may participate in its paralog-selective sumoylation (PubMed:21965678, PubMed:9388184). Sumoylates CCAR2 which promotes its interaction with SIRT1 (PubMed:25406032). Diminishes the sumoylation of ZFH3 by preventing the colocalization of ZFH3 with SUMO1 in the nucleus (PubMed:24651376).

Subunit Structure: Monomer (By similarity). Binds SUMO1 and UBE2I. Interacts with BCL11A, HMGA2, IRF1, MITF and NCOA2. Interacts with STAT5; the interaction occurs on stimulation by PRL. Interacts with GFI1; the interaction relieves the inhibitory effect of PIAS3 on STAT3-mediated transcriptional activity (By similarity). Interacts with AR, PLAG1 and ZFH3. Interacts with STAT3; the interaction occurs on stimulation by IL6, CNTF or OSM and inhibits the DNA binding activity of STAT3. Interacts with MTA1. Interacts with CCAR2 (via N-terminus). Interacts with TRIM8 (PubMed:20516148).

Post-translational Modifications: Sumoylated.

Similarity: The PINIT domain of PIAS3 is required for STAT3-PIAS3 interaction and for translocation to the nucleus. The LXXLL motif is a transcriptional coregulator signature. Belongs to the PIAS family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	115298686
NCBI GeneID	10401
NCBI Accession #	NP_006090.2
NCBI GenBank Nucleotide #	NM_006099.3
UniProt Accession #	Q9Y6X2; Q9UFI3
Molecular Weight	Observed: 68 kDa Predicted: 69 kDa
NCBI Official Full Name	E3 SUMO-protein ligase PIAS3
NCBI Official Synonym Full Names	protein inhibitor of activated STAT 3
NCBI Official Symbol	PIAS3
NCBI Official Synonym Symbols	ZMIZ5
NCBI Protein Information	E3 SUMO-protein ligase PIAS3
UniProt Protein Name	E3 SUMO-protein ligase PIAS3
UniProt Gene Name	PIAS3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pias3-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/320915>