

Rabbit PIAS1 Polyclonal Antibody | anti-PIAS1 antibody

PIAS1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40354	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot, ELISA

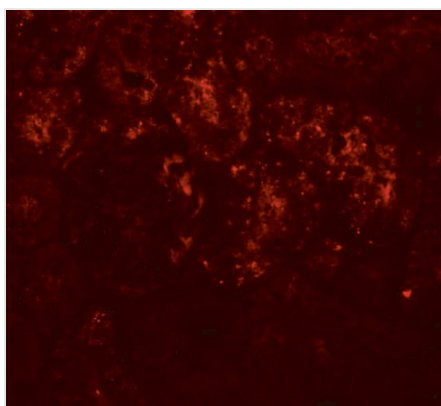
PRODUCT SYNONYMS

PIAS1; Polyclonal Antibody; PIAS1 Antibody; GBP; ZMIZ3; DDXBP1; GU/RH-II; E3 SUMO-protein ligase PIAS1; Gu-binding protein; protein inhibitor of activated STAT; 1; anti-PIAS1 antibody

PRODUCT SPECIFICATIONS

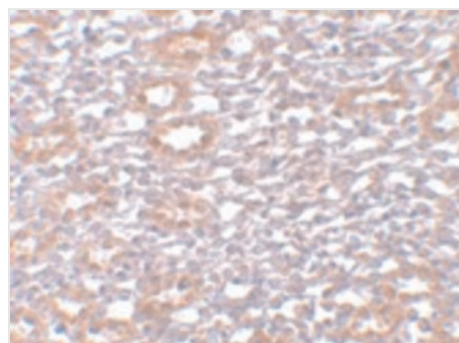
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	PIAS1 Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	651
Applicable Applications for anti-PIAS1 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	PIAS1 antibody was raised against a 15 amino acid synthetic peptide near the carboxy terminus of human PIAS1.
Buffer	PIAS1 Antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	PIAS1 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

IMAGES



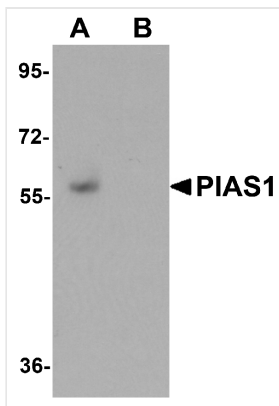
IF (Immunofluorescence)

Immunofluorescence of PIAS1 in rat kidney tissue with PIAS1 antibody at 20 µg/mL.



IHC (Immunohistochemistry)

Immunohistochemistry of PIAS1 in rat kidney tissue with PIAS1 antibody at 5 µg/mL.



WB (Western Blot)

Western blot analysis of PIAS1 in human kidney tissue lysate with PIAS1 antibody at 1 μg/mL in (A) the absence and (B) the presence of blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PIAS1 antibody

PIAS1 Antibody: The PIAS proteins (protein inhibitor of activated STAT) play a crucial role as transcriptional coregulators in various cellular pathways, including the STAT, p53 and the steroid hormone signaling pathway. The PIAS protein family includes at least five evolutionarily conserved genes, including PIAS1. The major function of the PIAS proteins is the control of gene transcription and can also act as small ubiquitin-like-modifier (SUMO) E3 ligases. PIAS1 binds specifically to STAT1, inhibiting STAT1-mediated gene activation and also binds to the Gu/RNA helicase II enzyme, leading to the proteolytic cleavage of Gu/RH-II. PIAS1 is a potent co-activator for CP2c-mediated alpha-globin expression in erythroid cells.

NCBI AND UNIPROT INFORMATION

NCBI GI #	7706637
NCBI GeneID	8554
NCBI Accession #	NP_057250
NCBI GenBank Nucleotide #	NM_016166.1
UniProt Accession #	O75925; Q147X4; Q99751; Q9UN02; B2RB67; B3KSY9; C5J4B4
Molecular Weight	36,204 Da
NCBI Official Full Name	E3 SUMO-protein ligase PIAS1
NCBI Official Synonym Full Names	protein inhibitor of activated STAT, 1
NCBI Official Symbol	PIAS1
NCBI Official Synonym Symbols	GBP; ZMIZ3; DDXBP1; GU/RH-II
NCBI Protein Information	E3 SUMO-protein ligase PIAS1; gu-binding protein; AR interacting protein; DEAD/H box-binding protein 1; RNA helicase II-binding protein; zinc finger, MIZ-type containing 3; protein inhibitor of activated STAT-1; protein inhibitor of activated STAT protein 1; DEAD/H (Asp-Glu-Ala-Asp/His) box binding protein 1
UniProt Protein Name	E3 SUMO-protein ligase PIAS1
UniProt Gene Name	PIAS1
UniProt Synonym Gene Names	DDXBP1; GBP
UniProt Entry Name	PIAS1_HUMAN

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.

