

Rabbit anti-Human, Mouse PIAS4 Polyclonal Antibody | anti-PIAS4 antibody

PIAS4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321981	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PIAS4; Polyclonal Antibody; PIAS4 Antibody; E3 SUMO protein ligase PIAS4; E3 SUMO-protein ligase PIAS4; FLJ12419; MGC35296; PAIASgamma; PIAS 4; PIAS gamma; PIAS-gamma; Pias4; PIAS4_HUMAN; PIASG; PIASgamma; PIASy; Protein inhibitor of activated STAT 4; Protein inhibitor of activated STAT protein 4; Protein inhibitor of activated STAT protein gamma; Protein inhibitor of activated STAT protein PIASy; Zinc finger MIZ type containing 6; ZMIZ 6; ZMIZ6; anti-PIAS4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	PIAS4 antibody detects endogenous levels of total PIAS4
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	510
Applicable Applications for anti-PIAS4 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PIAS4
Subcellular Location	Nucleus > PML Body. Colocalizes with SUMO1 and TCF7L2/TCF4 and LEF1 in a subset of PML (promyelocytic leukemia) nuclear bodies.
Tissue Specificity	Highly expressed in testis and, at lower levels, in spleen, prostate, ovary, colon and peripheral blood leukocytes.
Predicted Cross Reactivity	Pig, Bovine, Sheep, Dog, Chicken
Similarity	Pig (100%), Bovine (100%), Sheep (100%), Dog (100%), Chicken (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA321981 staining K562 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.



WB (Western Blot)

Western blot analysis of PIAS4 expression in Jurkat cell extract. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA321981 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample 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-PIAS4 antibody

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, the p53/TP53 pathway, the Wnt pathway and the steroid hormone signaling pathway. Involved in gene silencing. Mediates sumoylation of CEBPA, PARK7, HERC2, MYB, TCF4 and RNF168. In Wnt signaling, represses LEF1 and enhances TCF4 transcriptional activities through promoting their sumoylations. Enhances the sumoylation of MTA1 and may participate in its paralog-selective sumoylation.

Subunit Structure: Interacts with AR, AXIN1, GATA2, LEF1, TP53 and STAT1 (IFNG-induced). Binds to AT-rich DNA sequences, known as matrix or scaffold attachment regions (MARs/SARs) (By similarity). Interacts with TICAM1. Interacts with KLF8; the interaction results in SUMO ligation and repression of KLF8 transcriptional activity and of its cell cycle progression into G1 phase. Interacts with MTA1.

Post-translational Modifications: Sumoylated. Lys-35 is the main site of sumoylation. Sumoylation is required for TCF4 sumoylation and transcriptional activation. Represses LEF1 transcriptional activity. SUMO1 is the preferred conjugate.

Similarity: The LXXLL motif is a coregulator signature that is essential for transcriptional corepression. Belongs to the PIAS family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	24850133
NCBI GeneID	51588
NCBI Accession #	NP_056981.2
NCBI GenBank Nucleotide #	NM_015897.3
UniProt Accession #	Q8N2W9; O75926; Q96G19; Q9UN16
Molecular Weight	Observed: 57 kDa Predicted: 57 kDa
NCBI Official Full Name	E3 SUMO-protein ligase PIAS4
NCBI Official Synonym Full Names	protein inhibitor of activated STAT 4
NCBI Official Symbol	PIAS4
NCBI Official Synonym Symbols	PIASY; Piasg; ZMIZ6; PIAS-gamma

NCBI Protein Information	E3 SUMO-protein ligase PIAS4
UniProt Protein Name	E3 SUMO-protein ligase PIAS4
UniProt Gene Name	PIAS4
UniProt Synonym Gene Names	PIASG; PIAS-gamma

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/pias4-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321981>