

Rabbit PIAS4 Polyclonal Antibody | anti-PIAS4 antibody

Anti-PIAS4 Antibody

CATALOG # AAA46839	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

PIAS4; Polyclonal Antibody; Anti-PIAS4 Antibody; E3 SUMOprotein ligase PIAS4; E3 SUMO-protein ligase PIAS4; PIASG; PIASgamma; PIAS-gamma; PIASy; Q8N2W9; protein inhibitor of activated STAT; 4; anti-PIAS4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	510
Applicable Applications for anti-PIAS4 antibody	WB (Western Blot)
Notes	Tested Species: In-house tested species with positive results. Other applications have not been tested.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human PIAS4 (130-174aa EVRLVKLPFFNMLDELLKPTLVQPQNNEKLQESPCIFALTPRQVE), different from the related mouse sequence by two amino acids.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



WB (Western Blot)

Western blot analysis of PIAS4 expression in rat testis extract (lane 1), mouse testis extract (lane 2) and HELA whole cell lysates (lane 3). PIAS4 at 57KD was detected using rabbit anti-PIAS4 Antigen Affinity purified polyclonal antibody at 0.5 ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-PIAS4 antibody	Rabbit IgG polyclonal antibody for E3 SUMO-protein ligase PIAS4(PIAS4) detection. Background: E3 SUMO-protein ligase PIAS4, also known as protein inhibitor of activated STAT protein 4 (PIAS4) or protein inhibitor of activated STAT protein gamma (PIASg or PIASy), is an enzyme that in humans is encoded by the PIAS4 gene. This gene is mapped to 19p13.3. This gene 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. It also 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. This gene involved in gene silencing.
References	1. Bischof, O., Schwamborn, K., Martin, N., Werner, A., Sustmann, C., Grosschedl, R., Dejean, A. The E3 SUMO ligase PIASy is a regulator of cellular senescence and apoptosis. Molec. Cell 22: 783-794, 2006. 2. Galanty, Y., Belotserkovskaya, R., Coates, J., Polo, S., Miller, K. M., Jackson, S. P. Mammalian SUMO E3-ligases PIAS1 and PIAS4 promote responses to DNA double-strand breaks. Nature 462: 935-939, 2009. 3. Sachdev, S., Bruhn, L., Sieber, H., Pichler, A., Melchior, F., Grosschedl, R. PIASy, a nuclear matrix-associated SUMO E3 ligase, represses LEF1 activity by sequestration into nuclear bodies. Genes Dev. 15: 3088-3103, 2001.

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
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.