PIAS4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PIAS4, Polyclonal Antibody
Full Product Name	PIAS4 Antibody
Product Gene Name	anti-PIAS4 antibody
Product Synonym Names	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
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	PIAS4 antibody detects endogenous levels of total PIAS4
Preparation and Storage	Store at -20 °C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	PIAS4 peptide (MBS9617033) is used for blocking the activity of PIAS4 antibody (MBS9601501)
Molecular Weight	Observed: 57 kDa Predicted: 57 kDa
3D Structure	ModBase 3D Structure for Q8N2W9
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human PIAS4, corresponding to a region within C-terminal amino acids.
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
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PIAS4 antibody	Western Blot (WB), Immunohistochemisty (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), ELISA (EIA)

Application Notes for anti-PIAS4 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 IF/ICC: 1:100-1:500!! IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.
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.
Other Notes	Small volumes of anti-PIAS4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PIAS4 purchase	MBS9601501 is an antibody targeting PIAS4. Also known as PIAS4 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PIAS4. It may not necessarily be applicable to this product.

NCBI GI #	24850133
NCBI GeneID	51588
NCBI Accession #	NP_056981.2
UniProt Primary Accession #	Q8N2W9
UniProt Secondary Accession #	O75926; Q96G19; Q9UN16
UniProt Related Accession #	Q8N2W9
GenBank Nucleotide #	NM_015897.3
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
UniProt Protein Name	E3 SUMO-protein ligase PIAS4
UniProt Synonym Protein Names	PIASy; Protein inhibitor of activated STAT protein 4; Protein inhibitor of activated STAT protein gamma; PIAS-gamma; RING-type E3 ubiquitin transferase PIAS4Curated
Protein Family	E3 SUMO-protein ligase
UniProt Gene Name	PIAS4
UniProt Synonym Gene Names	PIASG; PIAS-gamma
NCBI Protein Information	E3 SUMO-protein ligase PIAS4

UniProt Comments for PIAS4	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.
Research Articles on PIAS4	**1.** study demonstrates that Piasy may prevent exaggerated transcription of IFNI by Rbp2-mediated demethylation of H3K4me3 of IFNI, avoiding excessive immune responses
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