PIAS4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PIAS4, Polyclonal Antibody
Full Product Name	PIAS4, NT (PIAS4, PIASG, E3 SUMO-protein ligase PIAS4, PIASy, Protein inhibitor of activated STAT protein 4, Protein inhibitor of activated STAT protein gamma) (MaxLight 650)
Product Gene Name	anti-PIAS4 antibody
Product Synonym Names	PIAS4; PIASG; E3 SUMO-protein ligase PIAS4; PIASy; Protein inhibitor of activated STAT protein 4; Protein inhibitor of activated STAT protein gamma
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	56,504 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (4007749..4038067). Location: 19p13.3
OMIM	605989
3D Structure	ModBase 3D Structure for Q8N2W9
Immunogen	PIAS4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 43-73 amino acids from the N-terminal region of human PIAS4.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-PIAS4 antibody	Antibodies; Transcription Factors; STAT
Applications Tested/Suitable for anti-PIAS4 antibody	Western Blot (WB), FLISA
Application Notes for anti-PIAS4 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-PIAS4 antibody	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 pathway, the Wnt pathway and the steroid hormone signaling pathway. Involved in gene silencing. Promotes PARK7 sumoylation. In Wnt signaling, represses LEF1 and enhances TCF4 transcriptional activities through promoting their sumoylations.

Product References and Citations for anti-PIAS4 antibody	Kang, X., et al. Oncogene 29(41):5568-5578(2010). Liu, Y., et al. J. Invest. Dermatol. 130(5):1384-1390(2010). Zhang, C., et al. Cell. Immunol. 263(2):235-240(2010). Wang, J., et al. J. Biol. Chem. 283(34):23235-23243(2008). Imoto, S., et al. Biochem. Biophys. Res. Commun. 370(2):359-365(2008).
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	MBS6333780 is an antibody targeting PIAS4. Also known as PIAS4, NT (PIAS4, PIASG, E3 SUMO-protein ligase PIAS4, PIASy, Protein inhibitor of activated STAT protein 4, Protein inhibitor of activated STAT protein gamma) (MaxLight 650). Reactive in Mouse. 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_015897.2
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
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
Protein Family	E3 SUMO-protein ligase
UniProt Gene Name	PIAS4
UniProt Synonym Gene Names	PIASG; PIAS-gamma
UniProt Entry Name	PIAS4_HUMAN
NCBI Protein Information	E3 SUMO-protein ligase PIAS4; PIAS-gamma; zinc finger, MIZ-type containing 6; protein inhibitor of activated STAT protein 4; protein inhibitor of activated STAT protein PIASy; protein inhibitor of activated STAT protein gamma

UniProt Comments for PIAS4	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 pathway, the Wnt pathway and the steroid hormone signaling pathway. Involved in gene silencing. Promotes PARK7 sumoylation. In Wnt signaling, represses LEF1 and enhances TCF4 transcriptional activities through promoting their sumoylations. 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). 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 G(1) phase. Highly expressed in testis and, at lower levels, in spleen, prostate, ovary, colon and peripheral blood leukocytes. Belongs to the PIAS family. Protein type: EC 6.3.2.-; SUMO conjugating system; Transcription, coactivator/corepressor; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 19p13.3 Cellular Component: nucleoplasm; PML body; nuclear matrix; cytoplasm; nucleus Molecular Function: protein binding; DNA binding; zinc ion binding; ubiquitin protein ligase binding; SUMO ligase activity; ligase activity Biological Process: positive regulation of protein sumoylation; Wnt receptor signaling pathway; protein sumoylation; transcription, DNA-dependent; inhibition of NF-kappaB transcription factor; negative regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent
Research Articles on PIAS4	**1.** Our study suggested that systemic sclerosis is associated with STAT gene rs7574865 polymorphism.
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