

PIAS3 Antibody (aa10-59)

Rabbit Polyclonal Antibody Catalog # ALS15080

Specification

PIAS3 Antibody (aa10-59) - Product Information

Application WB, IHC Primary Accession Q9Y6X2

Reactivity Human, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Calculated MW 68kDa KDa

PIAS3 Antibody (aa10-59) - Additional Information

Gene ID 10401

Other Names

E3 SUMO-protein ligase PIAS3, 6.3.2.-, Protein inhibitor of activated STAT protein 3, PIAS3

Target/Specificity

PIAS3 Antibody detects endogenous levels of total PIAS3 protein.

Reconstitution & Storage

Store at -20°C for up to one year.

Precautions

PIAS3 Antibody (aa10-59) is for research use only and not for use in diagnostic or therapeutic procedures.

PIAS3 Antibody (aa10-59) - Protein Information

Name PIAS3

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 and the steroid hormone signaling pathway. Involved in regulating STAT3 signaling via inhibiting STAT3 DNA-binding and suppressing cell growth. Enhances the sumoylation of MTA1 and may participate in its paralog-selective sumoylation (PubMed:21965678, PubMed:9388184). Sumoylates CCAR2 which promotes its interaction with SIRT1 (PubMed:25406032). Diminishes the sumoylation of ZFHX3 by preventing the colocalization of ZFHX3 with SUMO1 in the nucleus (PubMed:24651376).





Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:O54714}. Nucleus {ECO:0000250|UniProtKB:O54714}. Nucleus speckle {ECO:0000250|UniProtKB:O54714}. Note=Colocalizes with MITF in the nucleus. Colocalizes with GFI1 in nuclear dots. Colocalizes with SUMO1 in nuclear granules. {ECO:0000250|UniProtKB:O54714}

Tissue Location Widely expressed...

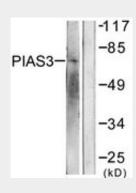
Volume 50 μl

PIAS3 Antibody (aa10-59) - Protocols

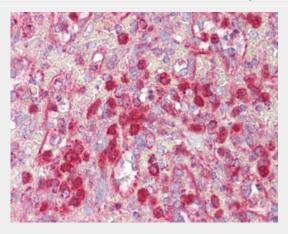
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

PIAS3 Antibody (aa10-59) - Images



Western blot of extracts from 293 cells, treated with UV 5', using PIAS3 Antibody.



Anti-PIAS3 antibody IHC of human spleen.



PIAS3 Antibody (aa10-59) - Background

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PIAS3 Antibody (aa10-59) - References

Ueki N.,et al.J. Hum. Genet. 44:193-196(1999).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Chung C.D.,et al.Science 278:1803-1805(1997).
Junicho A.,et al.Biochem. Biophys. Res. Commun. 278:9-13(2000).
Roedel B.,et al.EMBO J. 19:5845-5855(2000).