10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PIAS2 (aa185-196) Antibody (internal region)

Peptide-affinity purified goat antibody
Catalog # AF3139a

Specification

PIAS2 (aa185-196) Antibody (internal region) - Product Information

Application	**WB**
Primary Accession	O75928
Other Accession	NP_775298.1, NP_004662.2, 9063, 17344 (mouse), 83422 (rat)
Reactivity	**Human**
Predicted	**Mouse, Rat, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**68240**

PIAS2 (aa185-196) Antibody (internal region) - Additional Information

Gene ID 9063

Other Names
E3 SUMO-protein ligase PIAS2, 6.3.2.-, Androgen receptor-interacting protein 3, ARIP3, DAB2-interacting protein, DIP, Msx-interacting zinc finger protein, Miz1, PIAS-NY protein, Protein inhibitor of activated STAT x, Protein inhibitor of activated STAT2, PIAS2, PIASX

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
PIAS2 (aa185-196) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

PIAS2 (aa185-196) Antibody (internal region) - Protein Information

Name PIAS2

Synonyms PIASX

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 coregulator in various cellular pathways, including the STAT pathway, the p53 pathway and the steroid hormone signaling pathway. The effects of this transcriptional coregulation, transactivation or silencing may vary depending upon the biological context and the PIAS2 isoform studied. However, it seems to be mostly involved in gene silencing. Binds to sumoylated ELK1 and enhances its transcriptional activity by preventing recruitment of HDAC2 by ELK1, thus reversing SUMO-mediated repression of ELK1 transactivation activity. Isoform PIAS2-beta, but not isoform PIAS2-alpha, promotes MDM2 sumoylation. Isoform PIAS2-alpha promotes PARK7 sumoylation. Isoform PIAS2-beta promotes NCOA2 sumoylation more efficiently than isoform PIAS2-alpha. Isoform PIAS2-alpha sumoylates PML at'Lys-65' and 'Lys-160'.

Cellular Location
Nucleus speckle {ECO:0000250|UniProtKB:Q8C5D8}. Nucleus, PML body. Nucleus. Note=Colocalizes at least partially with promyelocytic leukemia nuclear bodies (PML NBs) (PubMed:22406621) Colocalizes with SUMO1 in nuclear granules (By similarity) {ECO:0000250|UniProtKB:Q8C5D8, ECO:0000269|PubMed:22406621}

Tissue Location
Mainly expressed in testis. Isoform 3 is expressed predominantly in adult testis, weakly in pancreas, embryonic testis and sperm, and at very low levels in other organs

PIAS2 (aa185-196) Antibody (internal region) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PIAS2 (aa185-196) Antibody (internal region) - Images

AF3139a (1 µg/ml) staining of Human Peripheral Lymphocytes lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

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PIAS2 (aa185-196) Antibody (internal region) - Background

This antibody is expected to recognize both reported isoforms (NP_775298.1; NP_004662.2).

PIAS2 (aa185-196) Antibody (internal region) - References

BCL6 suppression of BCL2 via Miz1 and its disruption in diffuse large B cell lymphoma. Saito M, Novak U, Piovan E, Basso K, Sumazin P, Schneider C, Crespo M, Shen Q, Bhagat G, Califano A, Chadburn A, Pasqualucci L, Dalla-Favera R, Proceedings of the National Academy of Sciences of the United States of America 2009 Jul 106 (27): 11294-9. PMID: 19549844