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PIAS1 (C) Antibody, Rabbit Polyclonal

Cat#: R0244-2

Quantity: 100 ul

Predicted M.W.: 72 kDa

Lot#: Refer to vial

Applications: WB, IP, IF, IHC

Uniprot ID: O75925

Applications key:

WB = Western blotting; IP = Immunoprecipitation; IF = Immunofluorescence;
IHC = Immunohistochemistry

Background:

E3 SUMO-protein ligase PIAS1 is a member of the mammalian PIAS (protein inhibitor of activated STAT-1 (signal transducer and activator of transcription-1)) family, which contains a putative zinc-binding motif and a highly acidic region. PIAS1 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. PIAS1 plays a crucial role as a transcriptional coregulation in various cellular pathways, including the STAT pathway, the p53 pathway and the steroid hormone signaling pathway. In vitro, PIAS1 binds A/T-rich DNA. The effects of the transcriptional coregulation, transactivation or silencing, may vary depending upon the biological context.

Other Names:

E3 SUMO-protein ligase PIAS1, DEAD/H box-binding protein 1, Protein inhibitor of activated STAT protein 1, DDXBP1, GBP, RNA helicase II-binding protein, GU/RH-II, zinc finger, MIZ-type containing 3, ZMIZ3, Gu-binding protein, AR interacting protein

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of human PIAS1, and provided as whole antiserum.

Storage Buffer and Condition:

Supplied as whole rabbit serum containing 0.01% NaN₃. Store at 4°C for up to 1 month, or aliquot and store at -70°C for long term storage (stable for 6 months from date of receipt).

Species Specificity:

Human, Mouse

Tested Applications:

WB: 1:1,000-1:5,000 (detect endogenous protein*)
IP: 1:50-1:100
IF: 1:100-1:200
IHC: 1:100-1:200

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

Product Data:

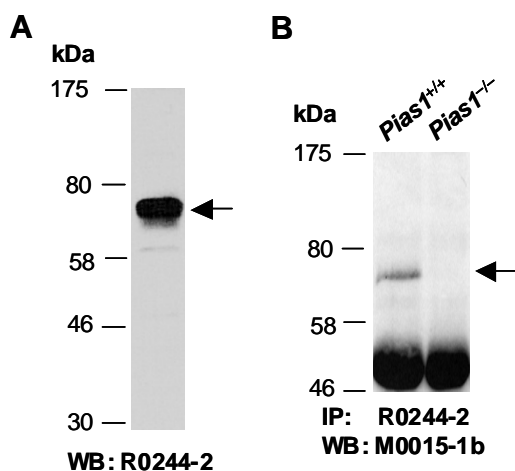


Fig 1. (A) Western blot of total cell extracts from mouse thymus, using Ab (R0244-2) at RT for 2 h. **(B)** IP-Western. Total cell extracts from *Pias1*^{+/+} or *Pias1*^{-/-} mouse thymus were immunoprecipitated with PIAS1 rabbit polyclonal antibody R0244-2, followed by WB with PIAS1 mouse monoclonal antibody M0015-1b.