

# PIAS1/2 Rabbit mAb

Catalog # AP76774

## Product Information

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|--------------------------|--------------------------------------|
| <b>Application</b>       | WB, IHC-P                            |
| <b>Primary Accession</b> | <a href="#">O75925/O75928/Q9Y6X2</a> |
| <b>Reactivity</b>        | Rat, Human, Mouse                    |
| <b>Host</b>              | Rabbit                               |
| <b>Clonality</b>         | Monoclonal Antibody                  |
| <b>Isotype</b>           | IgG                                  |
| <b>Conjugate</b>         | Unconjugated                         |
| <b>Purification</b>      | Affinity Purified                    |
| <b>Calculated MW</b>     | 72 KDa                               |

## Additional Information

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|--------------------|-------------------------------------------------------------------------------------------------|
| <b>Other Names</b> | PIAS1/PIAS2/PIAS3                                                                               |
| <b>Dilution</b>    | WB~~1:1000 IHC-P~~N/A                                                                           |
| <b>Format</b>      | Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA. |
| <b>Storage</b>     | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.        |

## Protein Information

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### Background

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This gene encodes a member of the protein inhibitor of activated STAT (PIAS) family. PIAS proteins function as SUMO E3 ligases and play important roles in many cellular processes by mediating the sumoylation of target proteins. This protein plays a central role as a transcriptional coregulator of numerous cellular pathways including the STAT1 and nuclear factor kappaB pathways. Alternate splicing results in multiple transcript variants. PIAS2 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. PIAS2 also 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. PIAS2 has 3 isoforms produced by alternative splicing with the MW of 68 kDa, 63 kDa and 45 kDa.

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