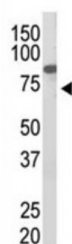
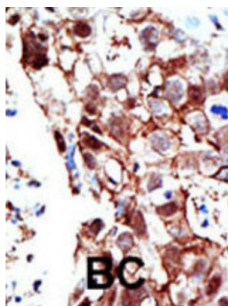


## Protein Inhibitor of Activated STAT2 (PIAS2) Antibody

Catalogue No.: abx026846



PIASX functions as an E3-type small ubiquitin-like modifier (SUMO) ligase, stabilizing the interaction between UBE21 and the substrate, and as a SUMO-tethering factor. This protein 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. PIASX 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. This antibody is directed against an epitope specific to PIAS2-alpha. 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.

**Target:** PIAS2

**Reactivity:** Human

**Host:** Rabbit

**Clonality:** Polyclonal

**Tested Applications:** WB, IHC

**Recommended dilutions:** Optimal dilutions/concentrations should be determined by the end user.

**Immunogen:** Human PIAS2.

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<b>Purification:</b>	Purified Rabbit Polyclonal Antibody.
<b>Isotype:</b>	IgG
<b>Conjugation:</b>	Unconjugated
<b>Specificity:</b>	This PIAS2 (PIASx1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the C-terminal region of human PIAS2 (PIASx1).
<b>Storage:</b>	Aliquot and store at -20 °C. Avoid repeated freeze/thaw cycles.
<b>Swiss Prot:</b>	<a href="#">O75928</a>
<b>NCBI Accession:</b>	NP_004662.2, NP_775298.1
<b>Buffer:</b>	PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.
<b>Note:</b>	This product is for research use only.