

Datasheet for ABIN2785610
anti-PIAS2 antibody (N-Term)



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1 Image

Overview

Quantity:	100 µL
Target:	PIAS2
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Dog, Cow, Horse, Rabbit, Guinea Pig, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIAS2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human PIAS2
Sequence:	RELYRRRYPR TLEGLSDLST IKSSVFSLDG GSSPVEPDLA VAGIHSLPST
Predicted Reactivity:	Cow: 93%, Dog: 92%, Guinea Pig: 92%, Horse: 92%, Human: 100%, Mouse: 92%, Pig: 93%, Rabbit: 92%, Rat: 93%
Characteristics:	This is a rabbit polyclonal antibody against PIAS2. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	PIAS2
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Target Details

Alternative Name:	PIAS2 (PIAS2 Products)
Background:	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. It 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. It seems to be mostly involved in gene silencing. It 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 gene encodes a protein involved in the regulation of transcription factors involved in MAP kinase signaling. The symbol MIZ1 has also been associated with ZBTB17 which is a different gene located on chromosome 1. Two alternatively spliced transcripts encoding different isoforms have been described. Alias Symbols: MGC102682, MIZ1, PIASX-ALPHA, PIASX-BETA, SIZ2, ZMIZ4, miz, DIP, MIZ, ARIP3, PIASX Protein Interaction Partner: HIC1, GOLGA2, GFAP, PHC1, TRIM23, ZBTB8A, SUMO1P1, ACY3, TSR2, NAV2, CCHCR1, CCNDBP1, MAPKAPK2, ZBED1, PIAS2, SUMO1, UBE2I, TP53, PRKAB2, MX2, TRIM63, TRIM55, CTBP1, GTF2I, SUMO2, SUMO3, MYC, DNMT3A, TICAM2, RUFY1, PIAS4, C1QA, ADA, PAXIP1, UBC, PLAGL1, P Protein Size: 572
Molecular Weight:	63 kDa
Gene ID:	9063
NCBI Accession:	NM_173206 , NP_775298
Pathways:	JAK-STAT Signaling , Intracellular Steroid Hormone Receptor Signaling Pathway , Regulation of Intracellular Steroid Hormone Receptor Signaling

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 572 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific

Handling

Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-PIAS2 Antibody Titration:

0.2-1 ug/ml

Positive Control: Human Liver