Datasheet for ABIN7602672

anti-PIAS2 antibody (AA 93-311)

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Overview

Quantity:	100 µg
Target:	PIAS2
Binding Specificity:	AA 93-311
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIAS2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-PIAS2 Antibody Picoband®
Immunogen:	E.coli-derived human PIAS2 recombinant protein (Position: E93-K311).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-PIAS2 Antibody Picoband® (ABIN7602672). Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	PIAS2
Alternative Name:	PIAS2 (PIAS2 Products)
Background:	Synonyms: E3 SUMO-protein ligase PIAS2, Androgen receptor-interacting protein 3, ARIP3, DAB2-interacting protein, DIP, E3 SUMO-protein transferase PIAS2, Msx-interacting zinc finger protein, Miz1, PIAS-NY protein, Protein inhibitor of activated STAT x, Protein inhibitor of activated STAT2, PIAS2, PIASX Tissue Specificity: 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. Background: E3 SUMO-protein ligase PIAS2 is an enzyme that in humans is encoded by the PIAS2 gene. It is mapped to 18q21.1. This gene encodes a member of the protein inhibitor of activated STAT family, which function as SUMO E3 ligases and play important roles in many cellular processes by mediating the sumoylation of target proteins. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. Isoforms of the encoded protein enhance the sumoylation of specific target proteins including the p53 tumor suppressor protein, c-Jun, and the androgen receptor. A pseudogene of this gene is located on the short arm of chromosome 4. The symbol MIZ1 has also been associated with ZBTB17 which is a different gene located on chromosome 1.
Molecular Weight:	68 kDa
Gene ID:	9063
UniProt:	O75928
Pathways:	JAK-STAT Signaling, Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Intracellular Steroid Hormone Receptor Signaling

Application Details

Application Notes:	Western blot, 0.1-0.25 µg/mL, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Liu, B., Liao, J., Rao, X., Kushner, S. A., Chung, C. D., Chang, D. D., Shuai, K. Inhibition of Stat1-mediated gene activation by PIAS1. Proc. Nat. Acad. Sci. 95: 10626-10631, 1998. 2. Tussie-Luna, M. I., Michel, B., Hakre, S., Roy, A. L. The SUMO ubiquitin-protein isopeptide ligase family member Miz1/PIASx-beta/Siz2 is a transcriptional cofactor for TFII-I. J. Biol. Chem. 277: 43185-43193, 2002. 3. Yang, S.-H., Sharrocks, A. D. PIASx-alpha differentially regulates the amplitudes of transcriptional responses following activation of the ERK and p38 MAPK pathways. Molec.

Application Details

	Cell 22: 477-487, 2006.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na_2HPO_4, 0.05 mg NaN_3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.