

Datasheet for ABIN500489
anti-PIAS1 antibody (C-Term)



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2 Images

Overview

Quantity:	0.1 mg
Target:	PIAS1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIAS1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	15 amino acid peptide near the carboxy terminus of Human PIAS1.
Isotype:	IgG
Specificity:	This antibody is predicted to not cross-react with other members of the PIAS family.
Cross-Reactivity (Details):	Species reactivity (tested): Human, Mouse, Rat.
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	PIAS1
Alternative Name:	PIAS1 (PIAS1 Products)

Target Details

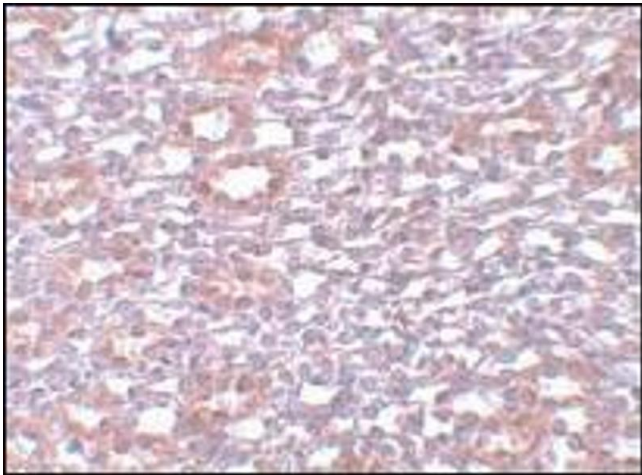
Background:	The PIAS proteins (protein inhibitor of activated STAT) play a crucial role as transcriptional coregulators in various cellular pathways, including the STAT, p53 and the steroid hormone signaling pathway. The PIAS protein family includes at least five evolutionarily conserved genes, including PIAS1. The major function of the PIAS proteins is the control of gene transcription and can also act as small ubiquitin-like-modifier (SUMO) E3 ligases. PIAS1 binds specifically to STAT1, inhibiting STAT1-mediated gene activation and also binds to the Gu/RNA helicase II enzyme, leading to the proteolytic cleavage of Gu/RH-II. PIAS1 is a potent co-activator for CP2c-mediated β -globin expression in erythroid cells.Synonyms: DDXBP1, DEAD/H box-binding protein 1, E3 SUMO-protein ligase PIAS1, Gu-binding protein, PIAS-1, Protein inhibitor of activated STAT protein 1, RNA helicase II-binding protein
Gene ID:	8554
NCBI Accession:	NP_057250
UniProt:	O75925
Pathways:	JAK-STAT Signaling , Interferon-gamma Pathway , Intracellular Steroid Hormone Receptor Signaling Pathway , Regulation of Muscle Cell Differentiation , Hepatitis C

Application Details

Application Notes:	ELISA. Western blot: 1 - 2 μ g/mL. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

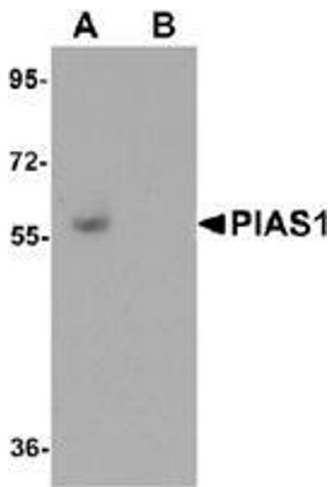
Handling

Concentration:	1.0 mg/mL
Buffer:	PBS containing 0.02 % Sodium Azide as preservative
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 freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of PIAS1 in rat kidney tissue with PIAS1 Antibody at 5 µg/ml



Western Blotting

Image 2. Western blot analysis of PIAS1 in human kidney tissue lysate with PIAS1 antibody at 1 µg/ml in (A) the absence and (B) the presence of blocking peptide.