Anti-PIAS1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014587

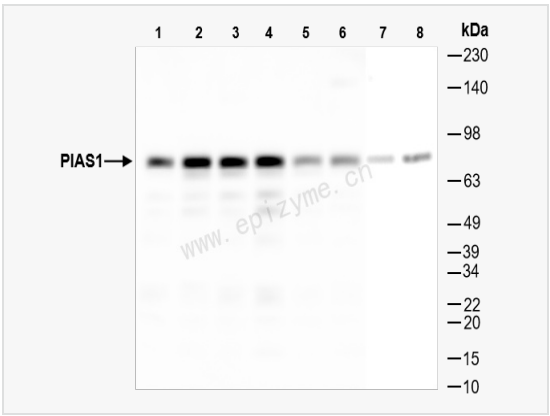
Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	81Q64F53
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human PIAS1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-PIAS1 Rabbit mAb [81Q64F53] is for research use only and not for use in diagnostic or therapeutic procedures.

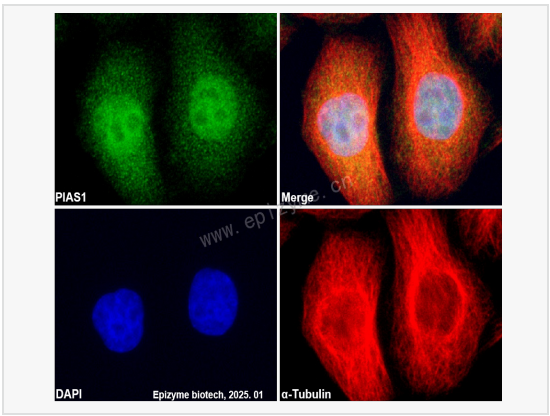
Protein Information

Synonyms	AR interacting protein, DDXBP1, DEAD/H (Asp-Glu-Ala-Asp/His) box binding protein 1, DEAD/H box binding protein 1, DEAD/H box-binding protein 1, E3 SUMO-protein ligase PIAS1, GBP, Gu binding protein, Gu-binding protein, GU/RH-II, Pias1, PIAS1_HUMAN, Protein inhibitor of activated STAT protein 1, Protein inhibitor of activated STAT, 1, RNA helicase II binding protein, RNA helicase II-binding protein, Zinc finger, MIZ-type containing 3, ZMIZ3.
Calculated MW	Calculated MW: 72 kDa; Observed MW: 76 kDa
Uniprot ID	O75925
Gene ID	8554
Background	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. 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.
Cellular Location	Nucleus speckle. Interaction with CSRP2 may induce a partial redistribution along the cytoskeleton.
Tissue Location	Expressed in numerous tissues with highest level in testis.

Validation Images



Western Blot - Anti-PIAS1 Rabbit mAb [81Q64F53]
All lanes: R014587 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 5: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lane 6: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 7: Rat brain whole tissue lysates
Lane 8: Rat heart whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 72 kDa
Observed band size: 76 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-PIAS1 Rabbit mAb [81Q64F53]
Sample: Hela cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R014587 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).