Anti-PIAS1/2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015119

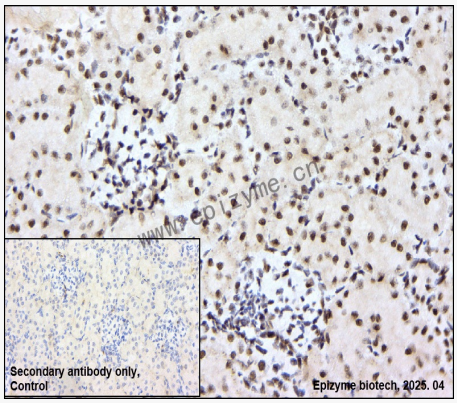
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	14P26T37
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-PIAS1/2 Rabbit mAb [14P26T37] is for research use only and not for use in diagnostic or therapeutic procedures.

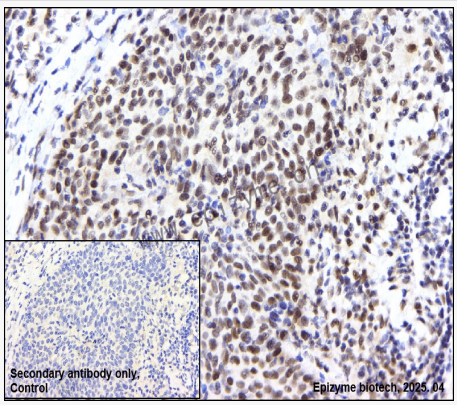
Protein Information

Synonyms	PIAS-1, PIAS-2, 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, Androgen receptor interacting protein 3, Androgen receptor-interacting protein 3, ARIP3, DAB2 interacting protein, DAB2-interacting protein, DIP, E3 SUMO protein ligase PIAS2, E3 SUMO-protein ligase PIAS2, MIZ, Miz1, Msx interacting zinc finger protein, Msx-interacting zinc finger protein, PIAS NY protein, PIAS-NY protein, PIAS2, PIAS2_HUMAN, PIASX, PIASX-ALPHA, PIASX-BETA, Protein inhibitor of activated STAT x, Protein inhibitor of activated STAT, 2, Protein inhibitor of activated STAT2, SIZ2, Zinc finger, MIZ-type containing 4, ZMIZ4, PIAS.
Calculated MW	Calculated MW: 72.68 kDa; Observed MW: 76 kDa
Uniprot ID	O75925, O75928
Gene ID	8554, 9063
Background	This gene encodes a member of the protein inhibitor of activated STAT (PIAS) family. PIAS proteins function as SUMO E3 ligases and play important roles in many cellular processes by mediating the sumoylation of target proteins. This protein plays a central role as a transcriptional coregulator of numerous cellular pathways includign the STAT1 and nuclear factor kappaB pathways. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016].
Cellular Location	PIAS1: Nucleus speckle. Interaction with CSRP2 may induce a partial redistribution along the cytoskeleton. PIAS2: Nucleus speckle. Nucleus, PML body. Nucleus. Colocalizes at least partially with promyelocytic leukemia nuclear bodies (PML NBs)

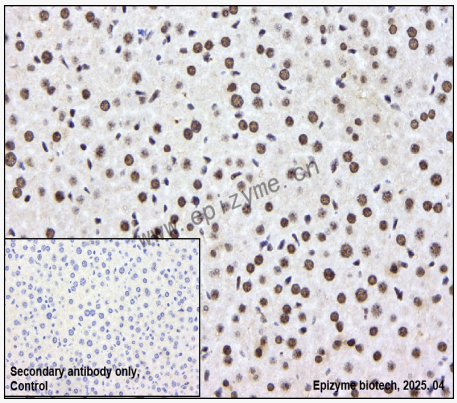
Validation Images



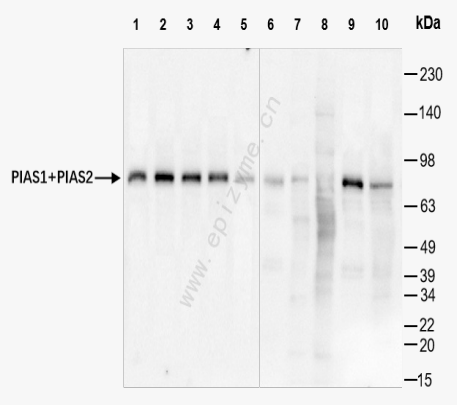
Immunohistochemistry - Anti-PIAS1/2 Rabbit mAb [14P26T37]
Sample: Paraformaldehyde-fixed, paraffin embedded rat kidney tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015119 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



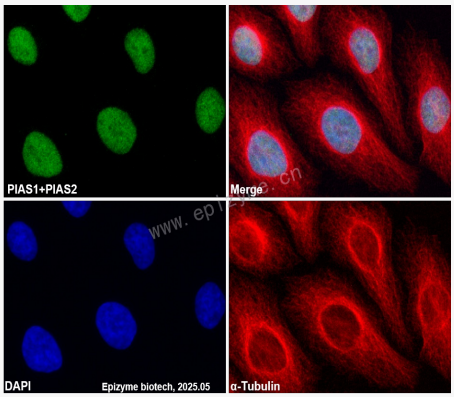
Immunohistochemistry - Anti-PIAS1/2 Rabbit mAb [14P26T37]
Sample: Paraformaldehyde-fixed, paraffin embedded human cervical cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015119 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-PIAS1/2 Rabbit mAb [14P26T37]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse liver tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015119 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Western Blot - Anti-PIAS1/2 Rabbit mAb [14P26T37]
All lanes: R015119 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lane 5: U87 (Human malignant glioblastoma epithelial cell) whole cell lysates
Lane 6: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 7: Mouse brain whole tissue lysates
Lane 8: Mouse liver whole tissue lysates
Lane 9: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lane 10: 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: 72.68 kDa
Observed band size: 76 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-PIAS1/2 Rabbit mAb [14P26T37]
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: R015119 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).