

## Anti-PIAS2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

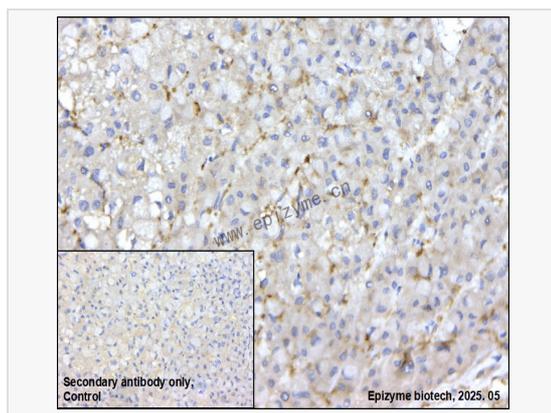
Catalog # R015420

### Product Information

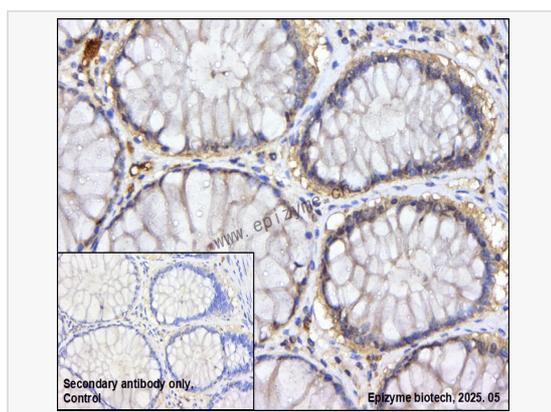
Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	39Y38D29
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human PIAS2
Format	Affinity purified 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-PIAS2 Rabbit mAb [39Y38D29] is for research use only and not for use in diagnostic or therapeutic procedures.

### Protein Information

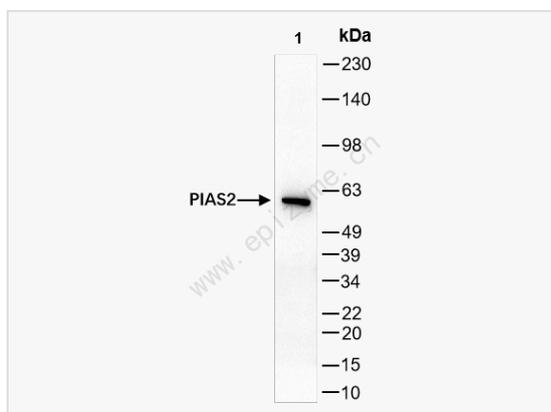
Synonyms	Androgen receptor interacting protein 3; Androgen receptor-interacting protein 3; ARIP3; DAB2 interacting protein; DAB2-interacting protein; DIP; E3 SUMO protein ligase PIAS2; E3 SUMO-protein ligase PIAS2; MIZ; Miz1; Msx interacting zinc finger protein; Msx-interacting zinc finger protein; PIAS 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.
Calculated MW	Calculated MW: 68 kDa; Observed MW: 55 kDa
Uniprot ID	O75928
Gene ID	9063
Background	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. [provided by RefSeq, Aug 2017].
Cellular Location	Nucleus speckle. Nucleus, PML body. Nucleus. Colocalizes at least partially with promyelocytic leukemia nuclear bodies (PML NBs) (PubMed:22406621). Colocalizes with SUMO1 in nuclear granules (By similarity).
Tissue Location	Mainly expressed in testis. Isoform 3 is expressed predominantly in adult testis, weakly in pancreas, embryonic testis and



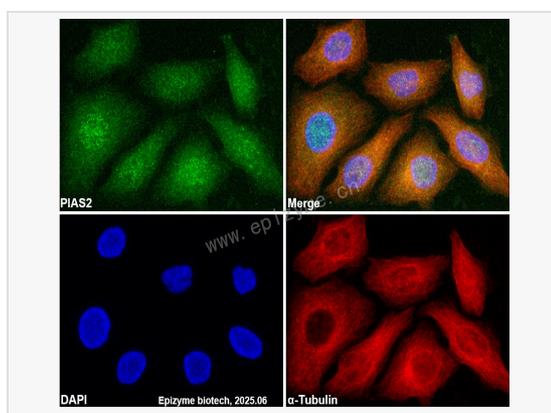
Immunohistochemistry - Anti-PIAS2 Rabbit mAb [39Y38D29]  
 Sample: Paraformaldehyde-fixed, paraffin embedded human hepatoma tissue  
 Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.  
 Primary antibody: R015420 at 1:200 dilution  
 Secondary antibody: Goat Anti-Rabbit IgG (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-PIAS2 Rabbit mAb [39Y38D29]  
 Sample: Paraformaldehyde-fixed, paraffin embedded human rectal adenocarcinoma tissue  
 Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.  
 Primary antibody: R015420 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-PIAS2 Rabbit mAb [39Y38D29]  
 All lanes: R015420 at 1:1,000 dilution  
 Lane 1: HepG2 (Human hepatocarcinoma epithelial cell) whole cell 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: 68 kDa  
 Observed band size: 55 kDa  
 Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-PIAS2 Rabbit mAb [39Y38D29]  
 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: R015420 at 1:100 dilution and  $\alpha$ -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).