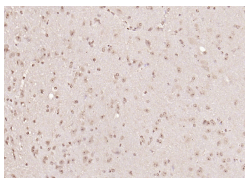
www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

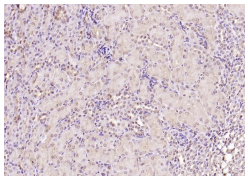
PPM1D Rabbit pAb

Catalog Number:	bs-22939R
Target Protein:	PPM1D
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Polyclonal
Isotype:	IgG
Applications:	IHC-P (1:400-800), IHC-F (1:400-800), IF (1:100-500)
Reactivity:	Human, Mouse, Rat
Predicted MW:	67 kDa
Entrez Gene:	8493
Swiss Prot:	O15297
Source:	KLH conjugated synthetic peptide derived from human PPM1D: 471-570/605.
Purification:	affinity purified by Protein A
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background:	PPM1D (Wip) is a serine/threonine phosphatase implicated in cell cycle control, spermatogenesis, and lymphoid cell function. The predicted 605-amino acid PPM1D protein contains 2 putative nuclear localization signals and 3 regions conserved in serine/threonine PP2C phosphatases, as well as characteristics of a type 2C phosphatase, including magnesium dependence and relative insensitivity to okadaic acid. PPM1D expression is induced in response to ionizing radiation in a p53-dependent manner. The accumulation of PPM1D mRNA following ionizing radiation is rapid and transient, and PPM1D protein is localized to the nucleus. PPM1D may contribute to growth inhibitory pathways activated in response to DNA damage in a p53-dependent manner. PPM1D inhibits phosphorylation of the p38 mitogen-activated (MAP)kinase protein. Through p38 MAPK, PPM1D modulates the CDKN2A tumor-suppressor locus. This gene is located in a chromosomal region known to be amplified in breast cancer, (located at 17q22-q23), is amplified in human breast tumor cell lines and in approximately 11% of primary breast tumors, and appears to lead to cell transformation by abrogating p53 tumor suppressor activity. Inactivation of the p38 MAPK through PPM1D overexpression resulting from PPM1D amplification may contributes to the development of human cancers by suppressing p53 activation. PPM1D null mice have increased susceptibility to pathogens and reduced male fertility and longevity.

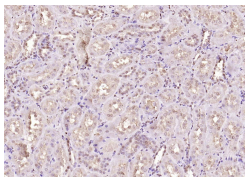
VALIDATION IMAGES



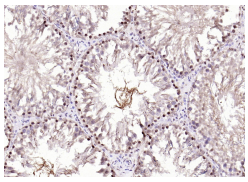
Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PPM1D) Polyclonal Antibody, Unconjugated (bs-22939R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



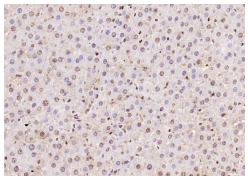
Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PPM1D) Polyclonal Antibody, Unconjugated (bs-22939R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



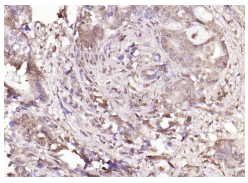
Paraformaldehyde-fixed, paraffin embedded (rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PPM1D) Polyclonal Antibody, Unconjugated (bs-22939R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PPM1D) Polyclonal Antibody, Unconjugated (bs-22939R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PPM1D) Polyclonal Antibody, Unconjugated (bs-22939R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human rectal carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PPM1D) Polyclonal Antibody, Unconjugated (bs-22939R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.