

bsm-33319M

[Primary Antibody]

Bioss
ANTIBODIES

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400-901-9800

PTEN Mouse mAb

DATASHEET

Host: Mouse

Clonality: Monoclonal

GeneID: 5728

Target: PTEN

Purification: affinity purified by Protein G

Concentration: 1mg/ml

Storage: Size : 50ul/100ul/200ul
0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Size : 200ug (PBS only)
0.01M PBS
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Potential tumor suppressor. Acts as a phosphoinositide3-phosphatase by regulating PtdIns (3,4,5)P3 levels. Involved in regulation of the AKT1 signaling pathway. The unphosphorylated form cooperates with AIP1 to suppress AKT1 activation. The PTEN/MMAC1 discovers the first to have the suppress of the phosphoric acid enzyme activity cancer gene currently. The gene of PTEN locates the chromosome10q23 area, sending forth sex tumor and a few households cancers with the variety to suffer from the comprehensive disease easily relevant. The activity that passes to repress the Akt regulates the cell period, the cell ground rule decrease and glues to connect. This text discussed PTEN structure, function and its correlationses, the PTEN is in tumor repress function mechanism.

Isotype: IgG

CloneNo.: 4D9

SWISS: P60484

Applications: IHC-P (1:100-500)

IHC-F (1:100-500)

IF (1:100-500)

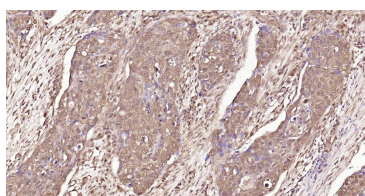
ICC/IF (1:100-200)

Reactivity: Human, Mouse, Rat

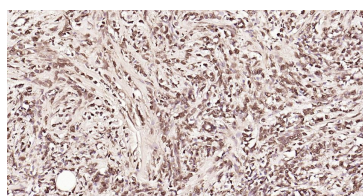
Predicted MW.: 44 kDa

Subcellular Location: Cytoplasm ,Nucleus

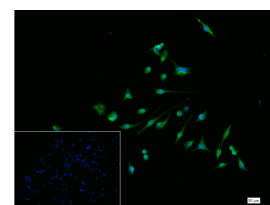
VALIDATION IMAGES



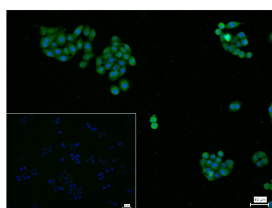
Paraformaldehyde-fixed, paraffin embedded Human Esophageal Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PTEN Monoclonal Antibody, Unconjugated(bsm-33319M) at 1:200 overnight at 4°C, followed by conjugation to the bs-40296G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PTEN Monoclonal Antibody, Unconjugated(bsm-33319M) at 1:200 overnight at 4°C, followed by conjugation to the bs-40296G-HRP and DAB (C-0010) staining.



4% Paraformaldehyde-fixed NIH/3T3(M) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (PTEN) monoclonal Antibody, unconjugated (bsm-33319M) 1:50, 90 min at 37°C; followed by conjugated Goat Anti-Mouse IgG antibody (green, bs-60296G-FITC) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.



4% Paraformaldehyde-fixed MCF-7 (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (PTEN) monoclonal Antibody,

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unconjugated (bsm-33319M) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Mouse IgG antibody (green, bs-0296G-FITC) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.

— SELECTED CITATIONS —

- **[IF=4.4]** Li Dandan. et al. MicroRNA-542-3p targets Pten to inhibit the myoblasts proliferation but suppresses myogenic differentiation independent of targeted Pten. BMC GENOMICS. 2024 Dec;25(1):1-16 WB ;Mouse. 38561670