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36-2943: Anti-PTEN (Tumor Suppressor Oncoprotein) Monoclonal Antibody(Clone: PTEN/2110)

Clonality :	Monoclonal
Clone Name :	PTEN/2110
Application :	IHC
Reactivity :	Human
Gene :	PTEN
Gene ID :	5278
Uniprot ID :	P60484
Alternative Name :	BZS; DEC; GLM2; MHAM; Mutated in Multiple Advanced Cancers 1 (MMAC1); MMAC1 phosphatase and tensin homolog deleted on chromosome 10; Phosphatase and Tensin Homolog; Phosphatase and tensin like protein; Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase; PTEN; PTEN1; TEP1
Isotype :	Mouse IgG2b, kappa
Immunogen Information :	Recombinant full-length human PTEN protein

Description

PTEN (phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase) contains a tensin like domain as well as a catalytic domain similar to that of the dual specificity protein tyrosine phosphatases. It was identified as a tumor suppressor that is mutated in a large number of cancers, including sporadic brain, breast, kidney, and prostate cancers.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

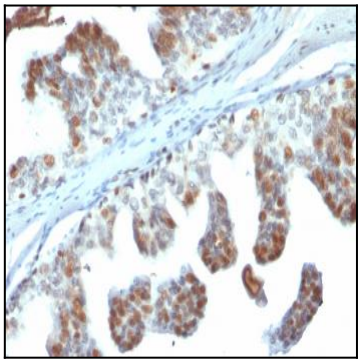

Fig. 1: Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with PTEN Mouse Monoclonal Antibody (PTEN/2110).

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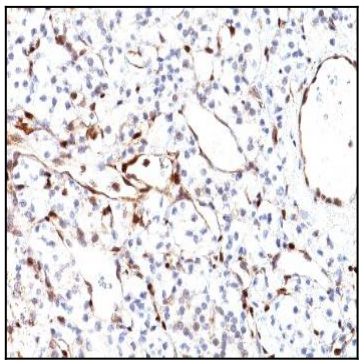

Fig. 2: Formalin-fixed, paraffin-embedded human Renal Cell Carcinoma stained with PTEN Mouse Monoclonal Antibody (PTEN/2110).

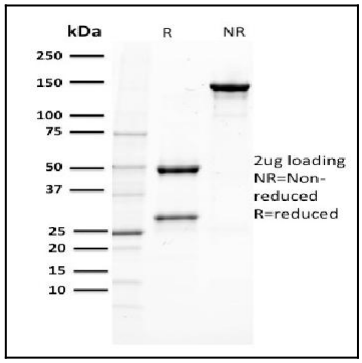

Fig. 3: SDS-PAGE Analysis Purified PTEN Mouse Monoclonal Antibody (PTEN/2110). Confirmation of Purity and Integrity of Antibody.

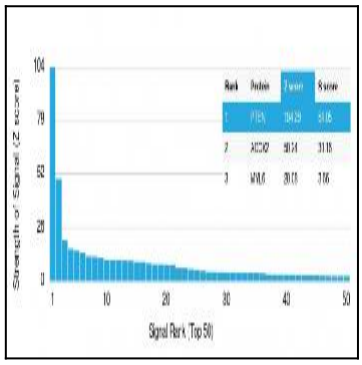

Fig. 4: Analysis of Protein Array containing more than 19,000 full-length human proteins using PTEN Mouse Monoclonal Antibody (PTEN/2110). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

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