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36-2504: Anti-APEX Nuclease I Monoclonal Antibody(Clone: CPTC-APEX1-2)

Clone Name : Monoclonal
Clone Name : CPTC-APEX1-2
Application : FACS,IF,WB,IHC

Reactivity: Human
Gene: PTPN6
Gene ID: 328
Uniprot ID: P27695

Alternative Name:

APEX1; AP endonuclease class I; AP lyase; APE; APE-1; APEN; APEX nuclease; Redox factor-1;

APX; protein REF-1

Isotype: Mouse IgG1, kappa

Immunogen Information: Recombinant human full-length APEX1 protein

Description

APEX / APE1 is a multifunctional protein that plays a central role in the cellular response to oxidative stress. The two major activities of APEX1 in DNA repair and redox regulation of transcriptional factors. Functions as a apurinic/apyrimidinic (AP) endodeoxyribonuclease in the DNA base excision repair (BER) pathway of DNA lesions induced by oxidative and alkylating agents. Patients with genetic variants in APEX1 and XRCC1 have been shown to have a higher risk of lung cancer. Elevated APEX1 levels observed in human testicular cancer may be related to relative resistance to therapy and therefore may serve as a diagnostic marker for refractory disease.

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

Flow Cytometry (1-2ug/million cells);,Immunofluorescence (1-2ug/ml); Western Blot (1-2ug/ml);,Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 min 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°C followed by cooling at RT for 20 minutes);



Fig. 1: Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with APEX Nuclease I Mouse Monoclonal Antibody (CPTC-APEX1-2).



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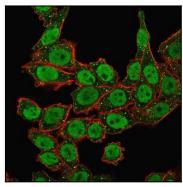


Fig. 2: Immunofluorescence Analysis of human HeLa cells labeling APEX Nuclease I with APEX Nuclease I Mouse Monoclonal Antibody (CPTC-APEX1-2) followed by Goat anti-Mouse IgG-CF488 (Green). Phalloidin CF640 stains the membrane red.

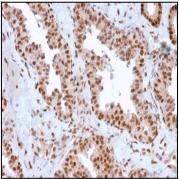


Fig. 3: Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with APEX Nuclease I Mouse Monoclonal Antibody (CPTC-APEX1-2).

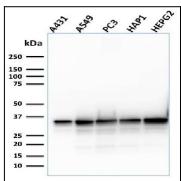


Fig. 4: Western Blot Analysis of Human A431, A549, PC3, HAP1, HePG2, cell lysate using APEX Nuclease I Mouse Monoclonal Antibody (CPTC-APEX1-2).

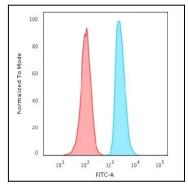


Fig. 5: Flow Cytometric Analysis of HeLa cells using APEX Nuclease I Mouse Monoclonal Antibody (CPTC-APEX1-2). Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



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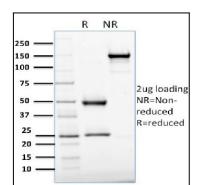


Fig. 6: SDS-PAGE Analysis Purified APEX Nuclease I Mouse Monoclonal Antibody (CPTC-APEX1-2). Confirmation of Purity and Integrity of Antibody.

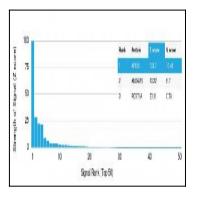


Fig. 7: Analysis of Protein Array containing more than 19,000 full-length human proteins using APEX Nuclease I Mouse Monoclonal Antibody (CPTC-APEX1-2). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-lgG 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.