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36-3141: Anti-Calcineurin B homologous protein 2 / HCC Antigen 520 Monoclonal Antibody(Clone: CPTC-CHP2-1)

Clonality :	Monoclonal
Clone Name :	CPTC-CHP2-1
Application :	WB,IF,IHC
Reactivity :	Human
Gene :	CHP2
Gene ID :	63928
Uniprot ID :	O43745
Alternative Name :	calcineurin-like EF hand protein 2; calcineurin-like EF-hand protein 2; HCA520; hepatocellular carcinoma antigen gene 520; Hepatocellular carcinoma-associated antigen 520 homolog
Isotype :	Mouse IgG2c, kappa
Immunogen Information :	Recombinant human full-length CHP2 protein

Description

CHP2 (calcineurin B homologous protein 2), also known as hepatocellular carcinoma-associated antigen 520, is a 196 amino acid protein that contains 4 EF-hand domains and plays a potential role in transmembrane Na+/H+ exchange. By binding to and activating NHE-1, CHP2 increases the pH and works to protect cells from serum deprivation-induced death. ThoÂµgh not typically detected in normal tissues, CHP2 is highly expressed in malignantly transformed cells and is therefore considered to be a tumor-associated antigen. Ectopic expression of CHP2 promotes proliferation of HEK293 cells and knockdown of CHP2 mRNA in HepG2 cells inhibits cell proliferation. Like calcineurin B, CHP2 can bind to and stimulate phosphatase activity of calcineurin A and activate the calcineurin/NFAT signaling pathway.

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

Western Blot (1-2ug/ml); Immunofluorescence (1-2ug/ml);,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),

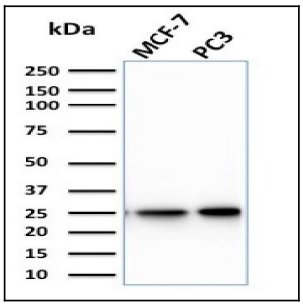

Fig. 1: Western Blot Analysis of MCF-7, PC3 cell lysate using CHP2 Mouse Monoclonal Antibody (CPTC-CHP2-1).

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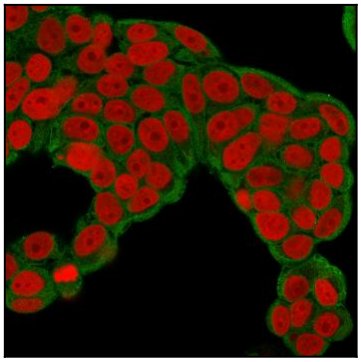

Fig. 2: Immunofluorescence Analysis of human MCF-7 cells labeling CHP2 with CHP2 Mouse Monoclonal Antibody (CPTC-CHP2-1) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red)

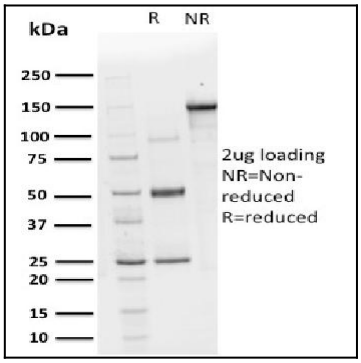

Fig. 3: SDS-PAGE Analysis Purified CHP2 Mouse Monoclonal Antibody (CPTC-CHP2-1). Confirmation of Purity and Integrity of Antibody.