

Anti-CHP2 Antibody

Catalog # AP51087

Product Information

Application	WB
Primary Accession	O43745
Reactivity	Human, Mouse, Rat, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	22452

Additional Information

Gene ID	63928
Other Names	HCA520; Calcineurin B homologous protein 2; Hepatocellular carcinoma-associated antigen 520
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CHP2. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	CHP2
Synonyms	HCA520
Function	Functions as an integral cofactor in cell pH regulation by controlling plasma membrane-type Na(+)/H(+) exchange activity. Binds to and activates SLC9A1/NHE1 in a serum-independent manner, thus increasing pH and protecting cells from serum deprivation-induced death. Also plays a role in the regulation of cell proliferation and tumor growth by increasing the phosphatase activity of PPP3CA in a calcium-dependent manner. Activator of the calcineurin/NFAT signaling pathway. Involved in the cytoplasmic translocation of the transcription factor NFATC3 to the nucleus.
Cellular Location	Nucleus. Cytoplasm. Cell membrane. Note=Predominantly localized in a juxtanuclear region. Colocalizes with SLC9A3 in the juxtanuclear region and at the plasma membrane (By similarity). Exported from the nucleus to the cytoplasm through a nuclear export signal (NES) pathway. May shuttle

between nucleus and cytoplasm.

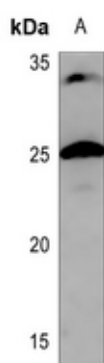
Tissue Location

Expressed in malignantly transformed cells but not detected in normal tissues.

References

Loftus B.J.,et al.Genomics 60:295-308(1999).
Wang Y.,et al.J. Immunol. 169:1102-1109(2002).
Pang T.,et al.J. Biol. Chem. 277:43771-43777(2002).
Li G.D.,et al.J. Biol. Chem. 283:32660-32668(2008).
Li Q.H.,et al.Genes Cells 16:416-426(2011).

Images



Western blot analysis of CHP2 expression in A549 (A) whole cell lysates. (Predicted band size: 22 kD; Observed band size: 25 kD)

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