Best Tools for immunology Research

CHP2 Polyclonal Antibody

Catalog No :	YT0915
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	CHP2
Gene Name :	CHP2
Protein Name :	Calcineurin B homologous protein 2
Human Gene Id :	63928
Human Swiss Prot No :	O43745
Mouse Swiss Prot No :	Q9D869
Rat Gene Id :	308965
Rat Swiss Prot No :	Q810D1
Immunogen :	The antiserum was produced against synthesized peptide derived from human CHP2. AA range:101-150
Specificity :	CHP2 Polyclonal Antibody detects endogenous levels of CHP2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:40000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 22kD

Cell Pathway : MAPK_ERK_Growth;MAPK_G_Protein;Calcium;Oocyte meiosis;Apoptosis_Inhibition;Apoptosis_Mitochondrial;Apoptosis_Overview;WNT;WNT-T CELLAxon guidance;VEGF;Natural killer cell mediated cytotoxicity;T_Cell_

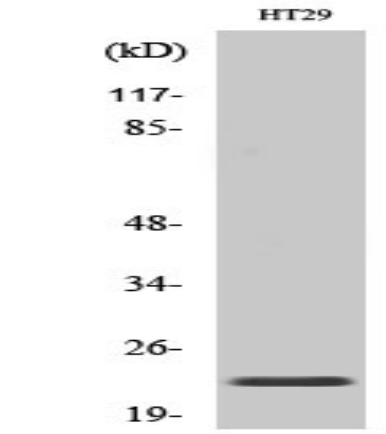
Background : This gene product is a small calcium-binding protein that regulates cell pH by controlling plasma membrane-type Na+/H+ exchange activity. This protein shares sequence similarity with calcineurin B and can bind to and stimulate the protein phosphatase activity of calcineurin A (CnA) and functions in the calcineurin/NFAT (nuclear factor of activated T cells) signaling pathway. Another member of the CHP subfamily, Calcineurin B homologous protein 1, is located on Chromosome 15 and is an inhibitor of calcineurin activity and has a genetic phenotype associated with Parkinson's Disease (OMIM:606988). This gene was initially identified as a tumor-associated antigen and was previously referred to as Hepatocellular carcinoma-associated antigen 520. [provided by RefSeq, Jul 2013],

Function : function:Binds to and activates SLC9A1/NHE1 in a serum-independent manner, thus increasing pH and protecting cells from serum deprivation-induced death.,similarity:Contains 4 EF-hand domains.,subunit:Binds to SLC9A1/NHE1.,tissue specificity:Expressed in malignantly transformed cells but not detected in normal tissues.,

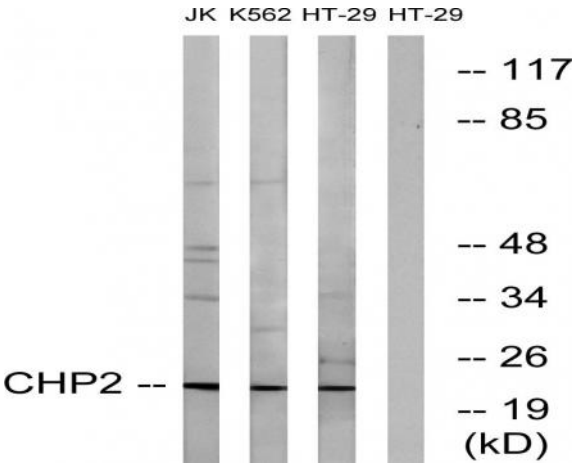
Subcellular Location : Nucleus . Cytoplasm . Cell membrane . Predominantly localized in a juxtanuclear region. Colocalizes with SLC9A3 in the juxtanuclear region and at the plasma membrane (By similarity). Exported from the nucleus to the cytoplasm through a nuclear export signal (NES) pathway. May shuttle between nucleus and cytoplasm. .

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

Products Images



Western Blot analysis of various cells using CHP2 Polyclonal Antibody



Western blot analysis of lysates from HT-29, K562, and Jurkat cells, using CHP2 Antibody. The lane on the right is blocked with the synthesized peptide.