

CHP Polyclonal Antibody

Catalog No :	YT0914
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	CHP
Gene Name :	CHP1
Protein Name :	Calcineurin B homologous protein 1
Human Gene Id :	11261
Human Swiss Prot No :	Q99653
Mouse Gene Id :	56398
Mouse Swiss Prot No :	P61022
Rat Gene Id :	64152
Rat Swiss Prot No :	P61023
Immunogen :	Synthesized peptide derived from the Internal region of human CHP.
Specificity :	CHP Polyclonal Antibody detects endogenous levels of CHP 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: 1:20000. 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 : 24kD

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 encodes a phosphoprotein that binds to the Na⁺/H⁺ exchanger NHE1. This protein serves as an essential cofactor which supports the physiological activity of NHE family members and may play a role in the mitogenic regulation of NHE1. The protein shares similarity with calcineurin B and calmodulin and it is also known to be an endogenous inhibitor of calcineurin activity. [provided by RefSeq, Jul 2008],

Function : function:Required for constitutive membrane traffic. Inhibits GTPase-stimulated Na(+)/H(+) exchange. Also inhibits calcineurin phosphatase activity. Required for activity of SLC9A1/NHE1.,PTM:Both N-myristoylation and calcium-mediated conformational changes are essential for its function in exocytic traffic.,PTM:Phosphorylated; decreased phosphorylation is associated with an increase in exchange activity. The phosphorylation state may regulate the binding to NHE1.,similarity:Contains 4 EF-hand domains.,subunit:Monomer (By similarity). Specifically binds to SLC9A1/NHE1 at a domain that is critical for growth factor stimulation of exchange activity.,tissue specificity:Ubiquitously expressed. Has been found in fetal eye, lung, liver, muscle, heart, kidney, thymus and spleen.,

Subcellular Location : Nucleus . Cytoplasm . Cytoplasm, cytoskeleton . Endomembrane system . Endoplasmic reticulum-Golgi intermediate compartment . Endoplasmic reticulum . Cell membrane . Membrane ; Lipid-anchor . Localizes in cytoplasmic compartments in dividing cells. Localizes in the nucleus in quiescent cells. Exported from the nucleus to the cytoplasm through a nuclear export signal (NES) and CRM1-dependent pathway. May shuttle between nucleus and cytoplasm. Localizes with the microtubule-organizing center (MTOC) and extends toward the periphery along microtubules. Associates with membranes of the early secretory pathway in a GAPDH-independent, N-myristoylation- and calcium-dependent manner. Colocalizes with the mitotic spindle microtubules. Colocalizes with GAPDH along microtubules. Colocalizes with SLC9A1

Expression : Ubiquitously expressed. Has been found in fetal eye, lung, liver, muscle, heart, kidney, thymus and spleen.

Products Images

Western Blot analysis of HeLa cells using CHP Polyclonal Antibody

