

Rabbit CHP Polyclonal Antibody | anti-CHP antibody

CHP Antibody

CATALOG # AAA324537	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunocytochemistry, Immunofluorescence, Western Blot
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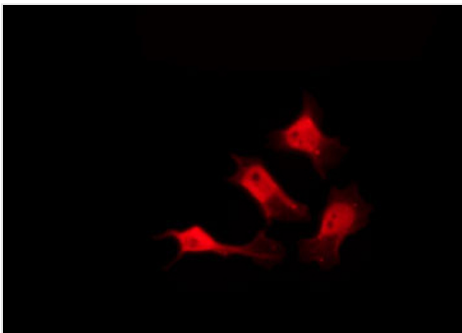
PRODUCT SYNONYMS

CHP; Polyclonal Antibody; CHP Antibody; Calcineurin B homolog; Calcineurin B homologous protein; Calcineurin homologous protein; Calcium binding protein CHP; Calcium binding protein p22; Calcium-binding protein CHP; Calcium-binding protein p22; chp; CHP1_HUMAN; Sid 470; Sid470; SLC9A1 binding protein; SLC9A1BP; Wrch2; anti-CHP antibody

PRODUCT SPECIFICATIONS

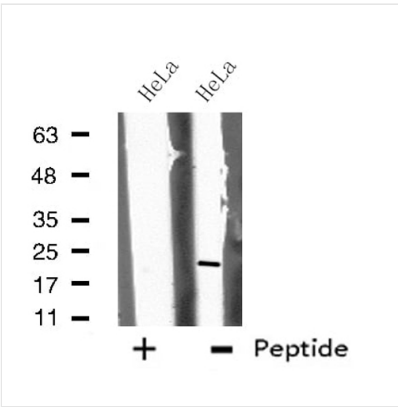
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CHP antibody detects endogenous levels of total CHP
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	195
Applicable Applications for anti-CHP antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm.
Tissue Specificity	Ubiquitously expressed. Has been found in fetal eye, lung, liver, muscle, heart, kidney, thymus and spleen.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (82%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (88%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA324537 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from HeLa cells, using CHP antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CHP antibody

Function: Calcium-binding protein involved in different processes such as regulation of vesicular trafficking, plasma membrane Na⁺/H⁺ exchanger and gene transcription. Involved in the constitutive exocytic membrane traffic. Mediates the association between microtubules and membrane-bound organelles of the endoplasmic reticulum and Golgi apparatus and is also required for the targeting and fusion of transcytotic vesicles (TCV) with the plasma membrane. Functions as an integral cofactor in cell pH regulation by controlling plasma membrane-type Na⁺/H⁺ exchange activity. Affects the pH sensitivity of SLC9A1/NHE1 by increasing its sensitivity at acidic pH. Required for the stabilization and localization of SLC9A1/NHE1 at the plasma membrane. Inhibits serum-and GTPase-stimulated Na⁺/H⁺ exchange. Plays a role as an inhibitor of ribosomal RNA transcription by repressing the nucleolar UBF1 transcriptional activity. May sequester UBF1 in the nucleoplasm and limit its translocation to the nucleolus. Associates to the ribosomal gene promoter. Acts as a negative regulator of the calcineurin/NFAT signaling pathway. Inhibits NFAT nuclear translocation and transcriptional activity by suppressing the calcium-dependent calcineurin phosphatase activity. Also negatively regulates the kinase activity of the apoptosis-induced kinase STK17B. Inhibits both STK17B auto- and substrate-phosphorylations in a calcium-dependent manner.

Subunit Structure: Monomer. Interacts with STK17B; the interaction occurs in a calcium-independent manner and induces the translocation of CHP1 from the Golgi to the nucleus. Interacts with GAPDH; the interaction is direct, occurs in a N-myristoylation-dependent manner and facilitates the ability of CHP1 to bind microtubules. Interacts with KIF1B (via the C-terminal end of the kinesin-motor domain); the interaction occurs in a calcium-dependent manner. Associates (via C-terminal domain) with microtubules; the association occurs with polymerized microtubules during the cell cycle in a myristoylation- and calcium-independent manner and is enhanced by GAPDH (By similarity). Interacts with PPP3CA. Interacts with SLC9A1/NHE1 (via the juxtamembrane region of the cytoplasmic C-terminal domain); the interaction occurs at the plasma membrane in a calcium-dependent manner and at a domain that is critical for growth factor stimulation of the exchanger.

Post-translational Modifications: Phosphorylated; decreased phosphorylation is associated with an increase in SLC9A1/NHE1 Na⁺/H⁺ exchange activity. Phosphorylation occurs in serum-dependent manner. The phosphorylation state may regulate the binding to SLC9A1/NHE1. Both N-myristoylation and calcium-mediated conformational changes are essential for its function in exocytic traffic (By similarity). N-myristoylation is required for its association with microtubules and interaction with GAPDH, but not for the constitutive association to membranes.

Similarity: Belongs to the calcineurin regulatory subunit family. CHP subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6005731
NCBI GeneID	11261
NCBI Accession #	NP_009167.1
NCBI GenBank Nucleotide #	NM_007236.4
UniProt Accession #	Q99653; Q6FHZ9; B2R6H9

Molecular Weight	Observed: 22 kD Predicted: 23 kDa
NCBI Official Full Name	calcineurin B homologous protein 1
NCBI Official Synonym Full Names	calcineurin like EF-hand protein 1
NCBI Official Symbol	CHP1
NCBI Official Synonym Symbols	CHP; p22; p24; Sid470p; SLC9A1BP
NCBI Protein Information	calcineurin B homologous protein 1
UniProt Protein Name	Calcineurin B homologous protein 1
UniProt Gene Name	CHP1
UniProt Synonym Gene Names	CHP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/chp-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/324537>