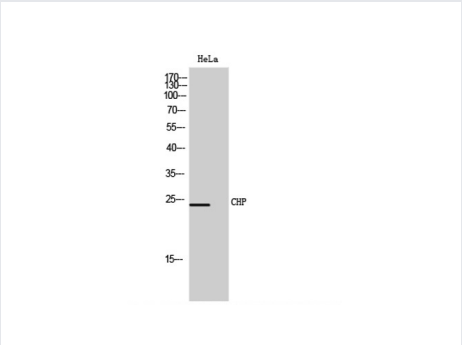
CHP Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CHP, Polyclonal Antibody
Full Product Name	CHP Polyclonal Antibody
Product Gene Name	anti-CHP antibody
Product Synonym Names	CHP1; CHP; Calcineurin B homologous protein 1; Calcineurin B-like protein; Calcium-binding protein CHP; Calcium-binding protein p22; EF-hand calcium-binding domain-containing protein p22
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Antigen Affinity Purified
Concentration	1 mg/ml (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles.
Molecular Weight	Calculated MW: 22 Observed MW: 24
OMIM	606988
3D Structure	ModBase 3D Structure for Q99653
Immunogen	Synthesized peptide derived from the Internal region of human CHP.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CHP antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-CHP antibody	WB: 1:500-1:2000, ELISA: 1:5000-1:20000
Related Product Information for anti-CHP antibody	MBS2535414 is an antibody targeting CHP. Also known as CHP Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-CHP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-CHP antibody
Western Blot analysis of Hela cells with CHP Polyclonal Antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHP. It may not necessarily be applicable to this product.

NCBI GI #	49457123
NCBI GeneID	11261
NCBI Accession #	CAG46882.1
UniProt Primary Accession #	Q99653
UniProt Secondary Accession #	Q6FHZ9; B2R6H9
UniProt Related Accession #	Q99653
NCBI Official Full Name	CHP, partial
NCBI Official Synonym Full Names	calcineurin like EF-hand protein 1
NCBI Official Symbol	CHP1
NCBI Official Synonym Symbols	CHP; p22; p24; Sid470p; SLC9A1BP
UniProt Protein Name	Calcineurin B homologous protein 1
UniProt Synonym Protein Names	Calcineurin B-like protein; Calcium-binding protein CHP; Calcium-binding protein p22; EF-hand calcium-binding domain-containing protein p22
Protein Family	Chaoptin
UniProt Gene Name	CHP1
UniProt Synonym Gene Names	CHP
UniProt Entry Name	CHP1_HUMAN
NCBI Protein Information	calcineurin B homologous protein 1
NCBI Summary for CHP	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]

UniProt Comments for CHP	CHP: 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. Belongs to the calcineurin regulatory subunit family. CHP subfamily. Protein type: Calcium-binding Chromosomal Location of Human Ortholog: 15q13.3 Cellular Component: cytoplasm; cytosol; endoplasmic reticulum; ER-Golgi intermediate compartment; focal adhesion; Golgi membrane; microtubule cytoskeleton; nucleus; plasma membrane; transport vesicle Molecular Function: calcium ion binding; calcium-dependent protein binding; kinase binding; microtubule binding; potassium channel regulator activity; protein binding; protein kinase inhibitor activity; transporter activity Biological Process: calcium ion-dependent exocytosis; carbohydrate metabolic process; cytoplasmic microtubule organization and biogenesis; glycosaminoglycan metabolic process; hyaluronan catabolic process; hyaluronan metabolic process; inhibition of NF-kappaB transcription factor; membrane docking; microtubule bundle formation; negative regulation of protein amino acid autophosphorylation; negative regulation of protein amino acid phosphorylation; negative regulation of protein import into nucleus; negative regulation of protein kinase activity; negative regulation of protein ubiquitination; positive regulation of protein amino acid glycosylation; positive regulation of protein transport; positive regulation of sodium:hydrogen antiporter activity; potassium ion transport; protein export from nucleus; protein oligomerization; protein stabilization; regulation of intracellular pH; small GTPase mediated signal transduction
Research Articles on CHP	**1.** Using shotgun mass spectrometry, we found this protein differentially expressed in the dorsolateral prefrontal cortex from patients with schizophrenia.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/chp/2535414