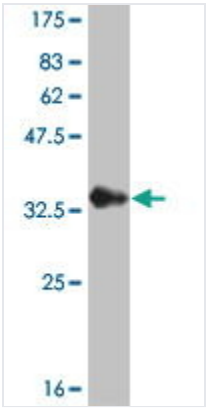
CHP Antibody – Mouse Monoclonal

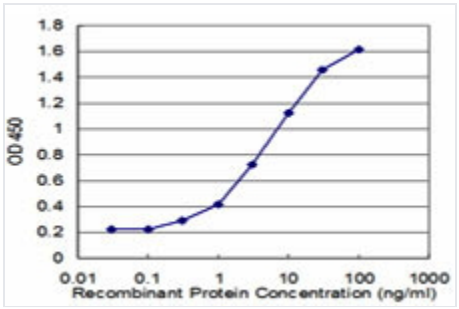
PRODUCT OVERVIEW

Product Name	CHP, Monoclonal Antibody
Full Product Name	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, CHP1) (FITC)
Product Gene Name	anti-CHP antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	S2
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CHP.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	22,456 Da
Immunogen	Full length recombinant corresponding to aa1-67 from CHP (AAH08373) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MESHSVTQAGVQWRDLGSLQPLPPGFKQFSHLSLPSSWDYRRVPPYLGNFCIFSGEGVSPCWPGWS*
Conjugate	FITC
Product Categories/Family for anti-CHP antibody	Antibodies; Binding Proteins; Calcium
Applications Tested/Suitable for anti-CHP antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-CHP antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CHP antibody	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.

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.
Searchable Terms for CHP purchase	MBS6146491 is an antibody targeting CHP. Also known as 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, CHP1) (FITC). Reactive in Human. Host: Mouse.



Western Blot (WB) of anti-CHP antibody
Western Blot detection against Immunogen (33.37kD) Catalog#.



Testing Data of anti-CHP antibody
Detection limit for recombinant GST tagged CHP is ~0.3ng/ml as a capture antibody.

ADDITIONAL DETAILS

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

NCBI GI #	14249972
NCBI GeneID	11261
NCBI Accession #	BC008373
NCBI Related Accession #	AAH08373
UniProt Secondary Accession #	Q6FHZ9; B2R6H9
UniProt Related Accession #	Q99653
NCBI Official Full Name	Homo sapiens calcium binding protein P22, mRNA
NCBI Official Synonym Full Names	calcineurin like EF-hand protein 1
NCBI Official Symbol	CHP1
NCBI Official Synonym Symbols	CHP; p22; p24; Sid470p; SLC9A1BP
Protein Family	Chaoptin
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]
Research Articles on CHP	**1.** Using shotgun mass spectrometry, we found this protein differentially expressed in the dorsolateral prefrontal cortex from patients with schizophrenia.
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