



CHP2 Polyclonal Antibody

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|---------------------------|--|
| Catalog No | BYab-03098 |
| Isotype | IgG |
| Reactivity | Human;Mouse;Rat |
| Applications | WB;ELISA |
| Gene Name | CHP2 |
| Protein Name | Calcineurin B homologous protein 2 |
| 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 |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Dilution | Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications. |
| Concentration | 1 mg/ml |
| Purity | ≥90% |
| Storage Stability | -20°C/1 year |
| Synonyms | CHP2; HCA520; Calcineurin B homologous protein 2; Hepatocellular carcinoma-associated antigen 520 |
| Observed Band | 22kD |
| Cell Pathway | Nucleus . Cytoplasm . Cell membrane . Predominantly localized in a juxtannuclear region. Colocalizes with SLC9A3 in the juxtannuclear 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. . |
| Tissue Specificity | Expressed in malignantly transformed cells but not detected in normal tissues. |
| 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., |

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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],

matters needing attention

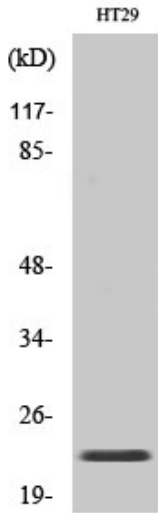
Avoid repeated freezing and thawing!

Usage suggestions

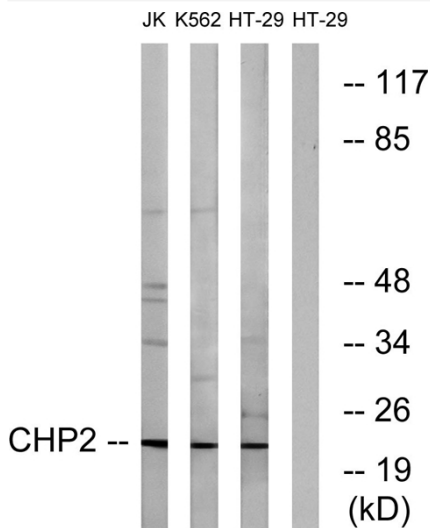
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



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.