

CHORDC1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58439

Product Information

Application WB, IHC-P, IHC-F, IF, E

Primary Accession Q9UHD1

Reactivity Rat, Pig, Dog, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 37490
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived from human CHORDC1

Epitope Specificity 301-395/395

Isotype IgG

Purity affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

SIMILARITY Contains2CHORDdomains.Contains1CSdomain.

SUBUNITInteractswithHSP90AA1,ROCK1andROCK2.InteractswithHSP90AB1andPPP5C
Important Note
This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

Background Descriptions Human CHP1 and the C. elegans homolog Chp are CHORD domain-containing

proteins that are largely related, and their corresponding genes are evolutionarily conserved among various eukaryotic organisms (1,2). The unique CHORD domain is characterized as 60 amino acids in length, and contains six highly conserved cysteine residues, two histidine residues and a distinct Zn2+-binding domain (3). CHP1 and the other metazoan orthologs have tandem CHORD domains that are located at both the N- and C- termini

(1,4). These proteins are implicated in germline development and

embryogenesis as mutations affecting the CHORD domain of the nematode

protein Chp result in semisterility and embryonic lethality (1,5).

Additional Information

Gene ID 26973

Other Names Cysteine and histidine-rich domain-containing protein 1, CHORD

domain-containing protein 1, CHORD-containing protein 1, CHP-1, Protein

morgana, CHORDC1, CHP1

Target/Specificity Underexpressedinmanybreastandlungcancers.

Dilution WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000

-10000

Storage Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name CHORDC1

Synonyms CHP1

Function Regulates centrosome duplication, probably by inhibiting the kinase activity

of ROCK2 (PubMed:20230755). Proposed to act as co- chaperone for HSP90 (PubMed:20230755). May play a role in the regulation of NOD1 via a HSP90 chaperone complex (PubMed:20230755). In vitro, has intrinsic chaperone activity (PubMed:20230755). This function may be achieved by inhibiting association of ROCK2 with NPM1 (PubMed:20230755). Plays a role in ensuring

the localization of the tyrosine kinase receptor EGFR to the plasma

membrane, and thus ensures the subsequent regulation of EGFR activity and EGF-induced actin cytoskeleton remodeling (PubMed:32053105). Involved in

stress response (PubMed: 20230755). Prevents tumorigenesis

(PubMed: 20230755).

Tissue Location Underexpressed in many breast and lung cancers.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.