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CHORDC1 Rabbit pAb

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Catalog # AP58439

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9UHD1
Predicted	Human, Mouse, Rat, Chicken, Dog, Pig, Horse, Rabbit, Sheep
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.
SUBUNIT	InteractswithHSP90AA1,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.

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