

**CHORDC1 Antibody**  
**Catalog # ASC11058****Specification**

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**CHORDC1 Antibody - Product Information**

Application	WB, IF, ICC, E
Primary Accession	<a href="#">Q9UHD1</a>
Other Accession	<a href="#">NP_036256</a> , <a href="#">221316566</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	CHORDC1 antibody can be used for detection of CHORDC1 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunocytochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.

**CHORDC1 Antibody - Additional Information**

Gene ID	26973
Target/Specificity	
CHORDC1;	

**Reconstitution & Storage**

CHORDC1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

CHORDC1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**CHORDC1 Antibody - Protein Information**

**Name** CHORDC1

**Synonyms** CHP1

**Function**

Regulates centrosome duplication, probably by inhibiting the kinase activity of ROCK2 (PubMed:<a href="http://www.uniprot.org/citations/20230755" target="\_blank">20230755</a>). Proposed to act as co- chaperone for HSP90 (PubMed:<a href="http://www.uniprot.org/citations/20230755" target="\_blank">20230755</a>). May play a role in the regulation of NOD1 via a HSP90 chaperone complex (PubMed:<a href="http://www.uniprot.org/citations/20230755" target="\_blank">20230755</a>). In vitro, has intrinsic chaperone activity (PubMed:<a href="http://www.uniprot.org/citations/20230755" target="\_blank">20230755</a>). This function

may be achieved by inhibiting association of ROCK2 with NPM1 (PubMed:<a href="http://www.uniprot.org/citations/20230755" target="\_blank">20230755</a>). 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:<a href="http://www.uniprot.org/citations/32053105" target="\_blank">32053105</a>). Involved in stress response (PubMed:<a href="http://www.uniprot.org/citations/20230755" target="\_blank">20230755</a>). Prevents tumorigenesis (PubMed:<a href="http://www.uniprot.org/citations/20230755" target="\_blank">20230755</a>).

#### **Tissue Location**

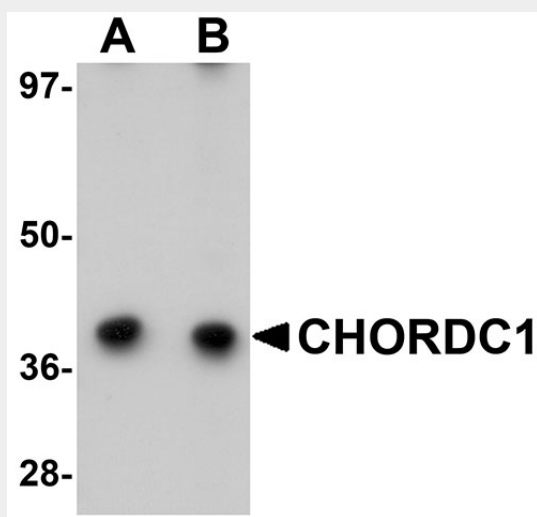
Underexpressed in many breast and lung cancers.

#### **CHORDC1 Antibody - Protocols**

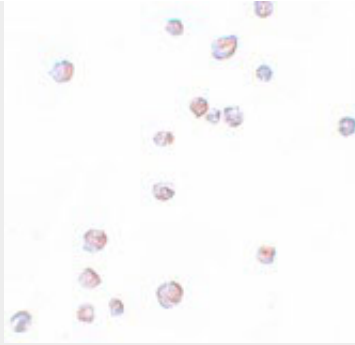
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

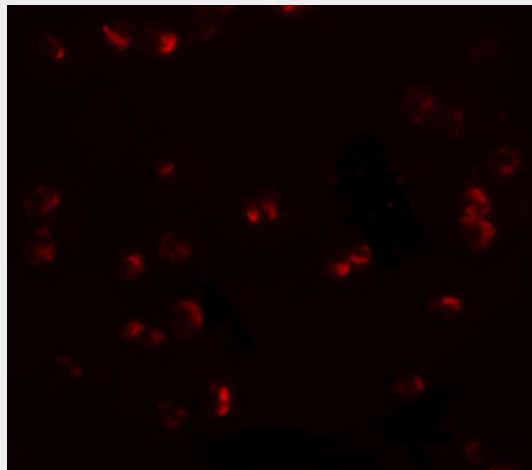
#### **CHORDC1 Antibody - Images**



Western blot analysis of CHORDC1 in 293 cell lysate with CHORDC1 antibody at (A) 1 and (B) 2 µg/mL.



Immunocytochemistry of CHORDC1 in 293 cells with CHORDC1 antibody at 2.5 µg/mL.



Immunofluorescence of CHORDC1 in 293 cells with CHORDC1 antibody at 20 µg/mL.

### **CHORDC1 Antibody - Background**

**CHORDC1 Antibody:** The cysteine and histidine-rich domain (CHORD)-containing protein (CHORDC1) is a member of a highly conserved protein family that contains the plant protein RAR1 and the mammalian protein melusin. In mammals, CHORDC1 is an ADP-dependent HSP90-interacting protein, and this interaction is dependent on the ability of HSP90 to bind nucleotides. Recent experiments indicate that CHORDC1 mRNA is diurnally regulated in mouse hypothalamus, and that this regulation alters during development, suggesting that CHORDC1 may play a role in circadian mechanisms in the mammalian brain.

### **CHORDC1 Antibody - References**

Shirasu K, Lahaye T, Tan MW, et al. A novel class of eukaryotic zinc-binding proteins is required for disease resistance signaling in barley and development in *C. elegans*. *Cell*1999; 99:355-66.  
 Brancaccio M, Menini N, Bongianini D, et al. Chp-1 and melusin, two CHORD containing proteins in vertebrates. *FEBS Lett.*2003; 551:47-52.  
 Wu J, Luo S, Jiang H, et al. Mammalian CHORD-containing protein 1 is a novel heat shock protein 90-interacting protein. *FEBS Lett.*2005; 579:421-6.  
 Gano JJ and Simon JA. A proteomic investigation of ligand-dependent HSP90 complexes reveals CHORDC1 as a novel ADP-dependent HSP90-interacting protein. *Mol. Cell Proteomics*2010; 9:255-70.