# Recombinant chordin Monoclonal Antibody

**catalog number: AN300295P**

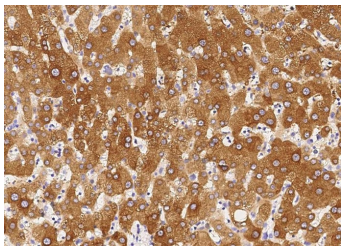
**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

## Description

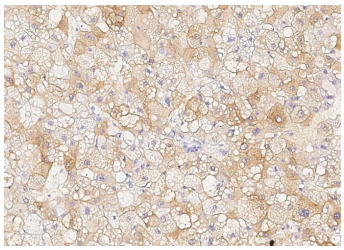
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|---|---|
| **Reactivity** | Human |
| **Immunogen** | A synthetic peptide corresponding to the center region of the Human chordin |
| **Host** | Rabbit |
| **Isotype** | IgG |
| **Clone** | B217 |
| **Purification** | Protein A |
| **Buffer** | 0.2 μm filtered solution in PBS |

| Applications | Recommended Dilution |
|---|---|
| **IHC-P** | 1:100-1:500 |

## Data



Immunohistochemistry of paraffin-embedded human liver using chordin Monoclonal Antibody at dilution of 1:200.



Immunohistochemistry of paraffin-embedded human hepatoma using chordin Monoclonal Antibody at dilution of 1:200.

## Preparation & Storage

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|---|---|
| **Storage** | This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles. |
| **Shipping** | Ice bag |

## Background

Chordin is a secreted glycoprotein that regulates dorsoventral patterning during gastrulation. Chordin functions as a bone morphogenetic protein (BMP) antagonist that blocks their ventralizing activity by binding to the BMPs and inhibiting their interaction with their receptors. Mouse Chordin cDNA encodes a 948 amino acid (aa) residue precursor protein with a putative 26 aa residue signal peptide. Chordin contains four internal cysteine-rich repeats ( CRs) that are conserved in the spacing of their ten cysteine residues. The CRs of chordin, especially CR1 and CR3, have been shown to be the functional domains for BMP binding. These conserved CRs are present in an expanding family of secreted molecules that antagonize BMP signaling. Xolloid (an extracellular zinc metalloproteinase) can cleave chordin at two specific sites resulting in chordin fragments with lower BMP-affinity. Cleavage of the chordin/ BMP complex can reverse the BMP antagonist activity of chordin. Mouse chordin is expressed at high levels in 7 day postcoitum mouse embryos. Chordin expression is also detected in multiple fetal and adult tissues, most notably liver and cerebellum, suggesting additional roles for chordin in organogenesis and homeostasis.


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