



## chordin (xN-20): sc-27351

### BACKGROUND

Dorsoventral patterning in animal development is regulated by a system of interacting secreted proteins involving Chordin (Chd), BMP, Xolloid and Twisted gastrulation (Tsg) (1,2). Chordin, a bone morphogenetic protein (BMP) inhibitor, is required for the Spemann organizer transplantation phenomenon in *Xenopus* embryos (3,4).

### SOURCE

chordin (xN-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the amino terminus of chordin of *Xenopus laevis* origin.

### PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS containing 0.1% sodium azide and 0.2% gelatin.

Blocking peptide is available for competition studies (sc-27351 P) (100 µg peptide in 0.5 ml PBS with 0.1% sodium azide and 100 µg BSA).

### SPECIFICITY

chordin (xN-20) is recommended for the detection of chordin of *Xenopus* origin by Western blotting and immunohistochemistry.

Recommended dilution range for Western blot analysis: 1:100–1:1000. Recommended starting dilution: 1:100.

### STORAGE

Store at 4° C, do not freeze; stable for one year from the date of shipment.

### RESEARCH USE

For research use only, not for use in diagnostic procedures.

### BACKGROUND REFERENCES

1. Larrain, J., Oelgeschlager, M., Ketpura, N.I., Reversade, B., Zakin, L., and De Robertis, E.M. 2001. Proteolytic cleavage of Chordin as a switch for the dual activities of Twisted gastrulation in BMP signaling. *Development* **128**: 4439-4447. PMID: 11714670.
2. Millet, C., Lemaire, P., Orsetti, B., Guglielmi, P., and Francois, V. 2001. The human chordin gene encodes several differentially expressed spliced variants with distinct BMP opposing activities. *Mech Dev.* **106**: 85-96. PMID: 11472837.
3. Oelgeschlager, M., Kuroda, H., Reversade, B., and De Robertis, E.M. 2004. Chordin is required for the Spemann organizer transplantation phenomenon in *Xenopus* embryos. *Dev Cell* **4**: 219-230. PMID: 12586065.
4. Nakayama, N., Han, C.E., Scully, S., Nishinakamura, R., He, C., Zeni, L., Yamane, H., Chang, D., Yu, D., Yokota, T., and Wen, D. 2001. A novel chordin-like protein inhibitor for bone morphogenetic proteins expressed preferentially in mesenchymal cell lineages. *Dev Biol.* **232**: 372-387. PMID: 11401399.

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