

**bs-11819R****[ Primary Antibody ]****CHRDL1 Rabbit pAb****BioSS**  
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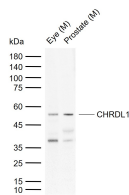
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## — DATASHEET —

<p><b>Host:</b> Rabbit</p> <p><b>Clonality:</b> Polyclonal</p> <p><b>GeneID:</b> 91851</p> <p><b>Target:</b> CHRDL1</p> <p><b>Immunogen:</b> KLH conjugated synthetic peptide derived from human CHRDL1: 21-120/450.</p> <p><b>Purification:</b> affinity purified by Protein A</p> <p><b>Concentration:</b> 1mg/ml</p> <p><b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.</p> <p><b>Background:</b> The patterning of the central nervous system (CNS) relies on the interaction of multiple signaling molecules, including Shh (sonic hedgehog homolog), Wnt proteins and BMPs (bone morphogenetic proteins), with their antagonists, namely chordin and Noggin. Chordin is a key developmental protein that dorsalizes early vertebrate embryonic tissues by binding to ventralizing TGF-beta-like BMPs and sequestering them in latent complexes. CHRDL1 (Chordin-like protein 1), also known as CHL, VOPT (Ventroptin) or NRLN1 (Neuralin-1), is a 450 amino acid secreted protein that contains three VWFC domains. Functioning in a similar manner to chordin, CHRDL1 binds to BMP-4 and prevents the interaction of BMP-4 with its target receptors, thereby antagonizing BMP-4 activity. Additionally, CHRDL1 is thought to play a role in dorsoventral axis formation, embryonic bone formation and angiogenesis, as well as in the differentiation of neural stem cells.</p>	<p><b>Isotype:</b> IgG</p> <p><b>SWISS:</b> Q9BU40</p> <p><b>Applications:</b> WB (1:500-2000)</p> <p><b>Reactivity:</b> Mouse (predicted: Human, Rat, Pig, Cow, Chicken, Dog, Horse)</p> <p><b>Predicted MW.:</b> 49 kDa</p> <p><b>Subcellular Location:</b> Secreted</p>
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## — VALIDATION IMAGES —



Sample: Lane 1: Mouse Eye tissue lysates Lane 2: Mouse Prostate tissue lysates  
 Primary: Anti-CHRDL1 (bs-11819R) at 1/1000 dilution  
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
 Predicted band size: 49 kDa  
 Observed band size: 52 kDa

## — SELECTED CITATIONS —

- **[IF=3.4]** Ou Guangyin. et al. Comprehensive pan-cancer analysis of CHRDL1 and experimental validation of its role in lung adenocarcinoma. BMC CANCER. 2025 Dec;25(1):1-14 WB ;Human. 40287623
- **[IF=0]** Bhutani, Nidhi, et al. "USE OF CHORDIN-LIKE 1 OR COLLAGEN VI WITH MESENCHYMAL STEM CELLS." U.S. Patent No. 20,170,209,621. 27 Jul. 2017. Other ;="Human". U.S.PatentNo.20,170,209,621.27Jul.2017